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ABSTRACT

This user's manual contains the major products of the data collection of the Anchor Test Study, a 34 volume report equating scores of eight widely used reading tests for grades 4, 5, and 6 in reading comprehension, vocabulary, and total reading. This manual provides: (1) equivalency tables which allow transformation of raw scores on one reading test to those of another, (2) new national individual and school mean norms tables, and (3) instructions for the use of the tables. Data are provided for the following eight tests: California Achievement Tests (1970), Comprehensive Tests of Basic Skills (1968), Gates MacGinitie Reading Tests (1964), Iowa Tests of Basic Skills (1971), Metropolitan Achievement Tests (1970), Sequential Tests of Educational Progress (1969), SRA Achievement Series (1971), and Stanford Achievement Tests (1964). In addition to providing procedures (with illustrative examples) for using the data, the manual contains a brief summary of the study design and analyses. (Author/RC)

ED 094008

ANCHOR TEST STUDY

74-305

Equivalence and Norms Tables for Selected Reading Achievement Tests (Grades 4, 5, 6)

by
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U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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FOREWORD

Reading tests are widely used in measuring the effectiveness of national and State education programs. The usefulness of such tests, unfortunately, has been hampered by the unavailability of a suitable method of comparing scores obtained on different tests.

The Office of Education undertook to devise an approach to equating scores from different reading tests. The tables in this manual—a principal result of that undertaking—are intended to facilitate conversion of a score on one of eight reading tests to an equivalent score on any one of the other seven tests.

Our hope is that this new approach will permit analysis of reading test-scores for children, with consequent insight into gains attributable to federally funded programs in education.

Charles H. Hammer
Data Requirements and Products Branch

Dorothy M. Gilford
Assistant Commissioner
for Educational Statistics

ACKNOWLEDGMENTS

Since many individuals and organizations contributed to this study and, therefore, to development of the manual, it is, unfortunately, not feasible to list all their names. An apology is herewith extended to those whose names have been omitted.

The study could not have been carried out without the cooperation and support of the Council of Chief State School Officers and the National Catholic Education Association. Other State education agency personnel, as well as various local school district and diocesan officials, were responsible for data-collection management, coordination, and recordkeeping. Within the schools, principals and teachers who organized and conducted the testing program ensured the high quality of the data.

The prominent educational administrators, evaluators, and researchers who made up the Anchor Test Study Advisory Council served as a consultative board during the study and were particularly useful in articulating the practical application of the study results.

Test publishers CTB/McGraw-Hill, Educational Testing Service, Harcourt Brace Jovanovich, Inc., Houghton Mifflin, Science Research Associates, and Teachers College Columbia University, permitted use of their tests and otherwise cooperated in the study.

Significant contributions were made by Office of Education staff. Richard M. Jaeger (currently associate professor of education at the University of South Florida) directed development of study specifications, saw the effort through its initial stages, and has maintained an active interest. Charles H. Hammer served as technical/administrative monitor for the major portion of the effort. Harold Nisselson (currently with the Bureau of the Census, U.S. Department of Commerce) provided technical direction for development of the sampling specifications.

Walter N. Durost, Director, Test Service and Advisement Center, participated in the design phase and provided technical assistance throughout the course of the study.

The staff of the Berkeley, California, office of Educational Testing Service (ETS) was responsible for conduct of the study, data analysis, and reporting. Peter G. Loret served as ETS project director, and Alan Seder shared with him the general planning and conduct of the study, with particular emphasis on the invitational, data-collection, and scoring/reporting phases. John C. Bianchini and Carol A. Vale planned and executed all phases of data analysis. William H. Angoff, Richard S. Levine, and Frederick M. Lord, of ETS' Princeton, New Jersey, office, provided consultative assistance on methodology.

Morris H. Hansen, Thomas W. McKenna, and David W. Chapman, staff members of Westat Research, Inc., (under subcontract to ETS), were responsible for design of the study samples.

A final word of acknowledgment is due the more than 365,000 children whose test scores provided data of outstanding quality.

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INTRODUCTION

In the spring of 1968 the Office of Education conducted a Survey of Compensatory Education designed primarily to evaluate the effectiveness of the Elementary and Secondary Education Act (ESEA), title I, program. Evaluative data obtained from the survey included reading achievement test scores, but analysis of these scores was not feasible because of the number of different reading tests on which scores were reported. Scores for children who had taken different reading tests were not statistically comparable, in part because of variations in standardization procedures among test publishers. Thus, it was not possible to analyze reading test scores for samples of pupils that were sufficiently large or representative to provide useful information on the title I program.

In 1969, the Office of Education awarded a contract to Scientific Educational Systems, Inc., to study the feasibility of equating reading achievement tests. Results of the feasibility study proved positive and the Office of Education subsequently devoted several man-years of work to developing specifications for equating and norming a number of widely used reading tests. In 1971, a contract for carrying out such equating and norming was awarded to Educational Testing Service (ETS). Because the basic design of the study required one test as the common base (or "anchor") through which all other tests were to be equated and normed, the effort subsequently became known as the "Anchor Test Study."

In April 1972, data were collected on seven reading tests. In April 1973, additional data were collected on the original anchor test (Metropolitan Achievement Test) and on an eighth test (Gates-MacGinitie Reading Test) not included in the original study. (See table A.) (It is expected that the results of these data collections, contained in a technical report consisting of 34 volumes and more than 15,000 pages, will be released in 1974. Plans are to make the report available from the National Institute of Education's Educational Resources Information Center [ERIC].) This user's manual contains the major products of the data collections on the eight tests: (1) equivalency tables which allow transformation of

Table A.--Test editions, levels, and forms used in the Anchor Test Study data collection: 1972-73

Test edition	Abbreviated test titles	Publisher	Form	Level used at grade:		
				4	5	6
Calif. Achievement Tests (1970 ed.)	CAT	CTB/McGraw-Hill	A	3	3	4
Comprehensive Tests of Basic Skills (1968 ed.)	CTBS	CTB/McGraw-Hill	Q	2	2	3
Gates-MacGinitie Reading Tests (1964 ed.)	GMT	Teachers College Columbia University	1M	Survey D	Survey D	Survey D
Iowa Tests of Basic Skills (1971 ed.)	ITBS	Houghton Mifflin	6	10	11	12
Metropolitan Achievement Tests (1970 ed.)	MAT	Harcourt Brace Jovanovich, Inc.	F	Elementary	Intermediate	Intermediate
Sequential Tests of Educational Progress, STEP Series II (1969 ed.)	STEP II	Educational Testing Service	A	4	4	4
SRA Achievement Series (1971 ed.)	SRA	Science Research Associates	E	Blue edition	Blue edition	Green edition
Stanford Achievement Tests (1964 ed.)	SAT	Harcourt Brace Jovanovich, Inc.	W	Intermediate I	Intermediate II	Intermediate II

raw scores on one reading test to those of another, (2) new national individual and school mean norms tables, and (3) instructions for use of the tables. The equivalency and norms tables are for grades 4, 5, and 6 for the eight tests shown in table A.

Since this manual is intended to supplement, not replace, the descriptive, interpretive, and technical information provided by the publishers of tests used in the Anchor Test Study, it is recommended that those who use the manual be thoroughly familiar with that information. The manual's primary aim is to provide a means through which Anchor Test Study raw-score equivalencies, individual norms, and school-mean norms may receive the widest possible distribution and use. In addition to providing procedures (with illustrative examples) for using the data, the manual contains a brief summary of the study design and analyses. (More substantive technical issues will be presented in the technical report.)

USE OF TABLES

Three types of tables are presented: *equivalency* tables, tables of *individual score norms*, and tables of *school mean norms*.

EQUIVALENCY TABLES

Test users may wish to (1) combine raw test scores from different reading tests without reference to a set of national norms (e.g., to combine individual pupils' test scores from several schools—which give *different* tests—without regard to their national percentile rank), or (2) compare directly summary statistical data, such as medians or quartiles, from two or more schools.

For these purposes, equivalency tables (tables 1-24) have been provided for *each* of the eight tests. There are separate sections in each equivalency table for Vocabulary, Reading Comprehension, and Total Reading scores at grades 4, 5, and 6. Raw scores for a single test are in the left-hand column. The equivalent raw scores for the other seven tests may be read directly from the other columns of the table.

The sum of the equivalent raw scores for the Vocabulary and Reading Comprehension tests may NOT equal the equivalent raw score for Total Reading, though the difference will generally be small. Thus, it is more appropriate if the equivalent Total Reading raw score is obtained independently rather than as the sum of two parts. For example, an ITBS Vocabulary score of 25 is equivalent to a STEP II Vocabulary score of 21 at grade 4 (see table 4, page19). An ITBS Reading Comprehension score of 50 is equivalent to a STEP II Reading Comprehension score of 23. An ITBS Total Reading score of 75 is equivalent to a STEP II Total Reading score of 43, whereas the sum of the two STEP II part scores given above is 44.

Example 1—Conversion of raw scores from one test to another

To convert a pupil's grade 4 Reading Comprehension score on the ITBS to the equivalent raw score on the SAT: Turn to table 4 (ITBS - Reading Comprehension), enter the first column (Raw score), and read the equivalent raw score from the section headed "Equivalent raw scores" under the heading "SAT." Thus, a raw score of 39 on the ITBS, at grade 4, is equivalent to a raw score of 34 on the SAT.

Example 2—Comparison of summary data on two tests

Summary data typically include a raw-score distribution, its mean raw score (arithmetic average), standard deviation, the median raw score (the 50th percentile), Q_1 (the 25th percentile), and Q_3 (the 75th percentile).

The equivalency tables may be used for transforming the median raw score, Q_1, and Q_3 from the raw score scale of one test to that of another test. To convert a median Vocabulary raw score of 20 for one school on the STEP II at grade 5 to an equivalent median raw score on the GMT Test without reference to national norms: Turn to table 16 (STEP II - Vocabulary), page 48, enter the first column and find the raw score of 20. Then read across the row to the column headed GMT and find the equivalent raw score of 29.

The mean raw score and standard deviation should not be treated in this same manner. To obtain the most accurate equivalent raw score mean and standard deviation, transform individual scores for all pupils from their raw scores on one test to the equivalent raw scores of the other test. Means and standard deviations of the equivalent scores may then be computed.

Note: The equivalency tables in this manual can be used directly *only* with those forms and levels of the various tests equated in the Anchor Test Study. For use of Anchor Test Study data with publishers' alternate test forms, see page 6.

INDIVIDUAL SCORE NORMS

To obtain national percentile ranks and/or stanines for individual pupil raw scores, refer to the Anchor Test Study individual-score norms (tables 25-27). These tables provide information about the relative level of pupil reading performance based on the Anchor Test Study norms sample—a randomly selected, stratified national sample of 4th-, 5th-, and 6th-grade pupils.

The Anchor Test Study norms contained in this manual are *spring* norms, since the test data were collected during April 1972 and April 1973. Use of these tables with *fall*

testing at grades 5, 6, and 7 is expected to yield generally appropriate national percentile ranks, if the *spring* norms developed for the preceding grade are applied. (As a consequence, the norms are inappropriate for 4th-grade pupils tested in the fall.) Use of Anchor Test Study *spring* norms with fall data from the next successive grade is likely to overestimate a pupil's national standing, because reading skills tend to improve over the intervening period. Thus, a 5th-grade pupil might be expected to obtain a slightly higher raw score in the fall than he would have obtained as a 4th grader in the preceding spring.

The Anchor Test Study norms are not *directly* applicable to converted scores, grade equivalents, or expanded standard scores, because normative data are provided only for *raw* scores (i.e., number of questions answered correctly). To use the Anchor Test Study norms with these types of scores, it is first necessary to change these scores to raw scores by referring to the publishers' own interpretive manuals.

The tables of individual-score norms contain Anchor Test Study norms for individual pupils for grades 4, 5, and 6. A separate table for each grade shows percentile ranks and stanines for individual raw scores on Vocabulary, Reading Comprehension, and Total Reading.[1]

All norms tables are identically organized: each contains the normative information for all eight tests included in the Anchor Test Study. (Note: for use of Anchor Test Study normative data with publishers' alternate test forms, see page 6.) The tables should be used to compare relative performance of different pupils on one or more tests. The following sample data may help illustrate the most common uses:

Sample Pupil Data

Pupils	Grade	Test	Form/Level	Total Reading raw scores (spring)	Publisher's nat'l %ile rank
Peter	5	CTBS	Q/2	49	--
Alan	5	GMT	IM/Survey D	44	--
Chuck	5	MAT	F/Intermediate	54	--
Carol	5	SRA	E/Blue	--	63
Judy	6	CAT	A/4	58	83

Note that each of the five pupils has taken a different reading test, that Judy is the only 6th-grader, and that Total Reading raw scores are not available for Carol.

Example 1—Finding percentile ranks and stanines for raw scores

The sample data show that Peter, a 5th-grade pupil, has a Total Reading raw score of 49 on the CTBS. To find his national percentile rank and stanine based on Anchor Test Study individual score norms, locate the appropriate table for grade 5, Total Reading score (table 26, page 73). In the "Raw score" column, find Peter's score of 49, then read across to the "CTBS" column, which shows an Anchor Test Study percentile rank of 32 and stanine of 4 for this score.

Example 2—Comparison of Anchor Test Study and publisher percentiles—raw score available

Judy, a 6th-grade pupil, has a Total Reading raw score of 58 and a publisher's national percentile rank of 83 on the CAT. To compare the publisher's national percentile rank with the Anchor Test Study national percentile rank, turn to table 27, page 76, to find the Anchor Test Study individual score norms for grade 6, Total Reading score. Find Judy's raw score (58) and read across to the column labeled "CAT," which shows the Anchor Test Study national percentile rank to be 84.

Note that the Anchor Test Study national percentile rank in the table is slightly different from the test publisher's national percentile rank. See page 5 for a discussion of comparability.

Example 3—Comparison of Anchor Test Study percentile ranks on different tests—raw scores available

In the sample data, Peter, Alan, and Chuck (all 5th-graders) have each taken a different reading test. Their Total Reading raw scores are: Peter (49 on the CTBS), Alan (44 on the GMT), and Chuck (54 on the MAT). To compare the Anchor Test Study national percentile ranks for these three pupils, turn to table 26, page 73, to find the norms for Total Reading score, grade 5. Find each pupil's score in the "Raw score" column, then read across until you find the appropriate entry under that test's name. Peter's 49 yields an Anchor Test Study national percentile rank of 32 on the CTBS, Alan's 44 yields 18 on GMT, and Chuck's 54 yields an Anchor Test Study national percentile rank of 50 on MAT. These Anchor Test Study national percentile ranks are now directly comparable because they are derived from the same norms sample. (See page 10 for a discussion of development of the norms.)

Example 4—Comparison of Anchor Test Study percentile ranks on different tests—raw score unavailable

In the sample data, Alan, a 5th-grade pupil, has a Total Reading raw score of 44 on GMT, but the record does not include the publisher's national percentile rank. Carol, also in the 5th grade, has taken the SRA ACH, but the record indicates *only* her national percentile rank. To compare the Anchor Test Study national percentile ranks of these pupils, it is necessary to obtain the raw scores for both pupils.

First, obtain Carol's raw score by referring to the appropriate publisher's manual—in this case, page 22 of the publication *Rights Keys, Norms and Conversion Tables, Multilevel Edition, Forms E and F*, 7-5789, (c) 1972, Science Research Associates. The publisher's national percentile rank of 63 corresponds to a raw score of 66. Now turn to table 26, page 73, of this user's manual and obtain

[1] The publishers of the GMT, ITBS, and SAT provide norms for Vocabulary and Reading Comprehension only. The publisher of STEP-II provides a Total Reading score only. However, when the appropriate publishers were consulted about the desirability of providing normative data for all three scores, they indicated that the information might indeed be useful to users of their tests.

Carol's Anchor Test Study national percentile rank, which is 65. Alan's comparable Anchor Test Study national percentile rank, found in the same table, is 18.

COMPARABILITY OF PUBLISHERS' AND ANCHOR TEST STUDY INDIVIDUAL-SCORE NORMS

Comparisons of national percentile ranks for publishers' and Anchor Test Study individual-score norms show (for the levels and forms of the tests identified in table A) that, with two exceptions, the data yield essentially comparable national rankings of individual pupils. Selected Anchor Test Study percentile ranks and publishers' corresponding percentile ranks for individual-pupil norms are shown in table 28, page 79.

The differences between the publishers' national norms for CAT, CTBS, ITBS, MAT[2], STEP-II, SRA and those for the Anchor Test Study data are generally small: most differences are less than 5 percentile-rank points. For the 1964 edition of the SAT and for the Reading Comprehension subtest of the GMT at grades 4 and 5, however, the differences between publishers' and Anchor Test Study norms are generally larger and more consistent throughout the score range than are those observed for the other six tests. The differences for the SAT tend to increase at successive grades, with smaller differences occurring at grade 4 and larger ones at grade 6. Users of the 1964 edition of the SAT should expect higher national percentile rankings when using the Anchor Test Study norms. The differences between publishers' and Anchor Test Study norms for the GMT Reading Comprehension subtest are generally smaller than those for the SAT, with the larger differences occurring at grade 4 and the somewhat smaller differences occurring at grade 5. Users of the GMT should expect higher national percentile ranks when using the Anchor Test Study norms for the GMT Reading Comprehension subtest.

SCHOOL-MEAN NORMS

The Anchor Test Study school-mean norms in tables 29-31 provide a basis for determining the relative performance of individual schools in terms of national percentile ranks and stanines. The size of the school sample and the degree of cooperation obtained in the study were of such magnitude that the resulting school-mean norms provide reliable information for the interpretation of school performance.

The school-mean norms tables should NOT be used in determining national percentile ranks for individual-pupil raw scores or for determining individual raw scores from national percentile ranks.

[2] The Anchor Test Study norms for children in grades 4, 5, and 6 are based on the performance of pupils tested with a *separate answer sheet* version of the MAT. The publisher's norming study used a *machine-scorable test-book* version for children in grade 4. Differences observed in the grade-4 norms may be partially or wholly attributable to this factor.

These data permit the user to translate a school's mean raw score into Anchor Test Study national percentile ranks and/or stanines. They provide information about the relative level of reading performance for individual schools (within or across districts or States).

Some test publishers do not provide school-mean norms as part of their interpretive information, partially because of the relatively small number of schools that may have participated in a publisher's norming study. In the absence of school-mean norms, some test users have determined the percentile rank of their school mean by using the publisher's norms tables for individual pupils. Others may have followed a publisher's recommendation that school medians be determined and that the school's percentile rank be estimated from individual-pupil norms. The availability of school-mean norms, through this study, provides a more accurate basis for evaluating school performance.

The Anchor Test Study school-mean norms tables contain data for grades 4, 5, and 6, with separate tables provided at each grade for Vocabulary, Reading Comprehension, and Total Reading scores. The tables are identically organized, providing *spring* normative information for all eight tests.

Two common uses of the school-mean norms tables will be (1) determination of an Anchor Test Study percentile rank corresponding to a school mean score and (2) comparison of the relative performance of two or more schools. The following sample data may be helpful in using these tables:

Sample School Data

School	Grade	Mean Vocabulary raw score	Test
Classical El. School	6	29	SAT
Lowell El. School	6	26	CAT
Keyes El. School	6	--	MAT

These sample data include three schools, each of which administered a *different* reading test to the 6th grade. Note that these data are based only on Vocabulary scores; they could just as readily have been based on Reading Comprehension or Total Reading scores.

Example 1—Finding a school's Anchor Test Study national percentile rank

To determine the Anchor Test Study national percentile rank for given test results: The sample data show that the Keyes Elementary School gave the MAT to its 6th-grade pupils; no mean Vocabulary raw score is provided for this school.

First, compute the school mean (arithmetic average of raw scores on the Vocabulary subtest for all 6th-graders in the Keyes School). Now turn to the proper table (table 31, page 87) for grade 6, Vocabulary. Assuming that the school's Vocabulary mean raw score for all 6th-graders is 35, find that score in the column

headed "Raw score" and read the appropriate Anchor Test Study national percentile rank in the column headed "MAT." The Anchor Test Study national percentile rank for a school mean of 35 is 50; this school mean of 35 falls within the 5th stanine.

Example 2—Comparison of performance of two or more schools

To compare performance of 6th-grade pupils at Classical and Lowell Elementary Schools, using the sample school data above: While the raw-score school means are available for both schools, they are based on two different tests. Table 31, page 87, contains the Anchor Test Study school-mean norms for grade 6, Vocabulary. Locate the mean raw score (29) for Classical Elementary School and find the corresponding Anchor Test Study percentile rank and stanine in the column entitled "SAT" (percentile rank of 72, stanine 6). Now enter the same table by locating the mean raw score (26) for Lowell Elementary School, and read the Anchor Test Study percentile rank and stanine in the column entitled "CAT" (percentile rank of 89, stanine 7). These Anchor Test Study percentile ranks may now be compared.[3]

USE OF ANCHOR TEST STUDY DATA WITH PUBLISHERS' ALTERNATE TEST FORMS

The Anchor Test Study equivalency tables, individual-score norms, and school-mean norms may be applied to scores obtained from the publishers' alternate (or parallel) test forms *only* by transforming these raw scores to those of the specific test form used in the Anchor Test Study. To carry out such a transformation, the user must refer to the appropriate publisher's manual to determine raw-score equivalents for alternate or parallel forms.

[3] To obtain percentile ranks for school means calculated to 1 decimal place, interpolate between adjacent percentile ranks.

SUMMARY OF STUDY DESIGN AND ANALYSES

The Anchor Test Study was formulated by the Office of Education with the cooperation of several nationally recognized experts in reading, program evaluation, educational measurement, psychometrics, and sampling. The study was conducted by Educational Testing Service at Berkeley, California, with technical assistance from some of its staff members in Princeton, New Jersey. Westat Research, Inc., of Rockville, Maryland, served as subcontractor and consultant on sampling techniques and procedures.

The standardized reading tests included in the study are in wide use by school systems throughout the Nation. The test editions were the latest available from the publishers at the time of data collection. Test levels and forms were those recommended by the publishers as most appropriate for children in grades 4, 5, and 6.

The following information applies to the data collection of April 1972, which involved seven tests (exclusive of the GMT), and that of April 1973, which involved the MAT and the GMT. For a complete technical presentation on procedures, methodology, and analyses, refer to the technical report (when available).

THE SAMPLES

For the April 1972 data collection, two nonoverlapping, stratified, random samples of schools were selected—one for norming and one for equating. The normative sample consisted of children in grades 4, 5, and 6 in 918 schools. The schools were selected to provide proper representation on each of the following variables:

1) Type of school: public, Catholic, and private non-Catholic.
2) Size of school system: district or county.
3) Percentage of minority children in the school or minority members in the community.
4) Income level of the immediate community in which the school is located.
5) Geographic region.
6) Degree of community urbanization, as determined by the 1970 census.

School participation in the 1972 normative study was outstanding: 838 of the 918 schools selected in the original normative sample participated; substitute schools were obtained to replace the original 80 that were unable to participate. Each substitute school was randomly selected from a group of schools comparable (on the six specific variables noted above) with the school originally selected.

The equating sample (445 school units, or 736 individual schools) was selected in essentially the same manner as was the norming sample. Because the equating design required that each testing unit be sufficiently large to include a minimum of two classes at each of the three grades, it was necessary to introduce additional conditions in the sampling procedures. Schools that did not have at least two classes at each grade were combined with a complementary school in the same system to form a school unit.[4] This permitted a counterbalanced order of test administration at each grade (i.e., administering a pair of tests in one sequence to half the pupils while administering the same test pair in the reverse order to the other half).

School cooperation in the 1972 equating study was also outstanding: 639 of the 736 schools selected in the original equating sample participated; substitutes were obtained for the other 97 schools. Each substitute school was randomly selected from the group of schools with identical school characteristics.

For the April 1973 data collection, 48 school-units were selected for joint administration of the GMT and the MAT, and 8 school-units were selected for alternate-forms administration of the GMT. The sample of schools originally selected for the 1972 data collection, and their alternates, formed the list from which schools were sampled for the 1973 data collection. The sampling procedure used in 1973 ensured a sample comparable in representation, on all major classification variables, with that used in 1972. Seventy-one percent of the selected schools in the sample agreed to participate. As in the 1972 data collection, substitute schools for those that declined to participate were chosen so as to maintain the representativeness of the overall sample.

TEST ADMINISTRATIONS

In the norming administration, approximately 68,000 pupils at each of grades 4, 5, and 6 took the MAT reading subtests. The tests were administered between April 17 and April 28, 1972.[5]

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[4] For public schools, school units were formed within the same school district whenever possible, or within the same county when necessary. For nonpublic schools, school units were formed within the same county whenever possible, or within the same State when necessary.

[5] All pupils enrolled in grades 4, 5, and 6 at a given school were either tested or identified as being absent on the day of testing. Handicapped pupils, including pupils with severe language impediments, were excluded from the study. Test scores of individuals and groups (classroom or school) judged invalid because of nonstandard testing conditions were treated as "absentee" data.

In the equating administration, each pupil took a preassigned pair of reading tests (each pair consisting of Vocabulary and Reading Comprehension subsections). In the 1972 data collection, approximately equal numbers of pupils took each of the seven instruments as a first test and as a second test. About 135,000 pupils were tested, approximately 45,000 at each grade level. In the 1973 data collection, about 15,000 pupils were tested, approximately 5,000 at each grade level. The sample of pupils tested was considerably smaller in 1973 because only the GMT and the MAT were equated directly. The designs of the equating test administration in 1972 and 1973 are schematically shown in table B. Note that in the 1972 administration every reading test was paired with every other test in a counterbalanced order of administration; every test was also paired with its alternate form to obtain parallel-form reliability estimates. A total of 56 different pairs of tests (or test forms) was administered at each of the three grades, and a randomly selected group of about 800 pupils was assigned to each sequence of administration. The counterbalanced order of test administration was also used in the 1973 data collection.

In both data collections, every test was also paired with its alternate form to obtain parallel-form reliability estimates. The alternate forms used were: CAT, Form B; CTBS, Form R; GMT, Form DM2M; ITBS, Form G; MAT, Form G; STEP II, Form B; SRA, Form F; SAT, Form X.

DEVELOPMENT OF EQUIVALENCY TABLES

The equating analysis utilized a frequency-estimation procedure which yielded estimated frequency distributions for each test and each order of administration, based on the performance of the total sample.[6] After separate frequency distributions were produced for the three test scores (Vocabulary, Reading Comprehension, and Reading Total) at each grade level, the equipercentile method of equating was applied in order to equate each test to each of the others. Results from the two sequences of test administration were then averaged to produce the equivalency tables contained in this manual.

USE OF EQUIVALENCY TABLES

Some practical issues should be considered in using equivalent raw-score data. Tests differ in such characteristics as number of items, content, format, and difficulty level. Intercorrelations constitute the statistical measure of comparability among tests, and, ideally, should approach unity (1.0) if two tests are measuring essentially the same reading processes and are perfectly reliable. Since perfectly reliable tests rarely, if ever, occur, it is necessary to correct the observed correlations for unreliability. It is generally agreed that correlations of .95 or higher are sufficient for deriving equivalent scores. Of the 207 corrected intercorrelations obtained in the Anchor Test Study data collected in 1972 and 1973, only 20 might be considered significantly below .95; all 20 were above .89.

Another issue concerns the magnitude of the equating error obtained for individual equivalent scores in the Anchor Test Study. The equating error obtained for scores above the mean-chance score[7] is only a fraction of a raw-score point, ranging from 0.1 to 0.7, with 0.2 or 0.3 the most frequent values. For scores below the mean-chance score, the equating error is more variable and somewhat larger, ranging from 0.2 to a maximum of 2.8 raw-score points. Since the error of measurement associated with the tests ranges from about 3 raw-score points (for a test of 30 items) to about 5 raw-score points (for a test of 120 items), it is apparent that the equating errors associated with the equivalent scores are extremely small, relative to errors of measurement, for scores outside the chance range. Thus, the use of equivalent raw scores will result in essentially the same relative precision as the use of original raw scores.

A third issue concerns the usefulness of the equivalent scores with specific groups of children. The equivalent scores included in this manual generally apply equally well to each of the following subgroups: boys and girls; low-, middle-, and high-IQ children; middle socioeconomic-status children; and white children. The equivalent scores of certain tests for high- and low-socioeconomic-status children and for black and Spanish-surnamed children are somewhat different from those of other subgroups and from those of the total equating sample. These differences, however, may be partially, if not wholly, explained by the procedure used in selecting the equating sample—a procedure that maximized representation of the *total* student population at grades 4, 5, and 6, and did not maximize representation of any specific subgroup. Until this issue is resolved, the most appropriate guideline for using the equivalency tables in this manual with the subgroups noted above is that the user must exercise the best professional judgment in deciding which of these tests is best suited for the children and the reading program in a school or school district.

The effect of equating errors on group data (such as school or district means) will vary with the performance level of the group. Generally, the magnitude of the equating error for group means will be less than 0.5 raw-score points if the group mean is near or above the mean score of the Anchor Test Study norms sample. If the group mean is quite low, near the mean-chance score level, the magnitude of the equating error ranges from about 0.5 to 1.0 raw-score points, depending on which pair of tests is selected.

The Anchor Test Study equivalency tables are most appropriately used with test administrations conducted in the spring. However, results obtained when the same pair

[6] Every 4th-, 5th-, or 6th-grade pupil in the Nation, through the school he attended, had a known probability of being selected to participate in the study. The appropriate school sample weight was applied to each pupil's score in order to estimate national test-score distributions. In computing individual pupil weights, the school weight was adjusted separately for boys and girls, by ability levels, and by ethnic characteristics, to reflect the degree of absenteeism. Theoretically, the estimated test-score distributions represent those that would have been obtained had all pupils in the Nation been tested at these three grades (excluding handicapped pupils and those with severe language impediments).

[7] The mean-chance score, for tests that are scored by counting the number of correct responses, is the ratio of the number of items to the number of choices available for each item. For example, the mean-chance score for a 60-item test, with each item having 4 choices, is 60/4, or 12.5 raw-score points.

Table B.--Test administration designs for the equating studies

1972 Design

CAT (1) CAT† (2) CAT† (1) CAT (2)	CAT (1) CTBS (2)	CAT (1) ITBS (2)	CAT (1) MAT (2)	CAT (1) STEP II (2)	CAT (1) SRA (2)	CAT (1) SAT (2)
CTBS (1) CAT (2)	CTBS (1) CTBS† (2) CTBS† (1) CTBS (2)	CTBS (1) ITBS (2)	CTBS (1) MAT (2)	CTBS (1) STEP II (2)	CTBS (1) SRA (2)	CTBS (1) SAT (2)
ITBS (1) CAT (2)	ITBS (1) CTBS (2)	ITBS (1) ITBS† (2) ITBS† (1) ITBS (2)	ITBS (1) MAT (2)	ITBS (1) STEP II (2)	ITBS (1) SRA (2)	ITBS (1) SAT (2)
MAT (1) CAT (2)	MAT (1) CTBS (2)	MAT (1) ITBS (2)	MAT (1) MAT† (2) MAT† (1) MAT (2)	MAT (1) STEP II (2)	MAT (1) SRA (2)	MAT (1) SAT (2)
STEP II (1) CAT (2)	STEP II (1) CTBS (2)	STEP II (1) ITBS (2)	STEP II (1) MAT (2)	STEP II (1) STEP II† (2) STEP II† (1) STEP II (2)	STEP II (1) SRA (2)	STEP II (1) SAT (2)
SRA (1) CAT (2)	SRA (1) CTBS (2)	SRA (1) ITBS (2)	SRA (1) MAT (2)	SRA (1) STEP II (2)	SRA (1) SRA† (2) SRA† (1) SRA (2)	SRA (1) SAT (2)
SAT (1) CAT (2)	SAT (1) CTBS (2)	SAT (1) ITBS (2)	SAT (1) MAT (2)	SAT (1) STEP II (2)	SAT (1) SRA (2)	SAT (1) SAT† (2) SAT† (1) SAT (2)

1973 Design

GMT (1) GMT† (2) GMT† (1) GMT (2)	GMT (1) MAT (2)
MAT (1) GMT (2)	

Note: (1) Indicates test taken first
(2) Indicates test taken second
† Indicates alternate form

of test forms were equated at successive grades led to the conclusion that the equivalent scores are also applicable to fall test data. The equivalent scores contained in this manual, therefore, may be used with tests administered at any period of the school year, provided the test form is appropriate to that grade level.

DEVELOPMENT OF ANCHOR TEST STUDY NORMS

Individual norms and school-mean norms were developed separately for part scores (Vocabulary and Reading Comprehension) and for Total Reading scores. The individual-score norms for the MAT were derived from the test administration previously described. For the other seven reading tests, individual norms were derived by matching each raw score with the percentile rank and stanine of the corresponding MAT equivalent score.

Thus, reliable individual norms were derived for all eight reading tests on the same sample of pupils. Because of the high reliability of the equating results, users of the Anchor Test Study norms are assured of accurate national pupil ranking for all eight reading tests.

The school-mean norms for the MAT are based on the weighted-mean scores of the 918 schools that participated in the norming study. The school-mean norms for the other seven reading tests were derived by converting individual MAT scores to their equivalent scores on each of the other seven tests. Thus, it was possible to calculate school means for all eight tests and to derive reliable school-mean norms.

TABLES

Table 7 Grade 4: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form G Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Intermediate 1 Form W Word Meaning	SRA ACH 1971 Blue Level Form C Vocabulary	STEP II 1969 Level A Form A Part 1
Raw score	Equivalent raw score						
40	40	47	38	50	38	42	30
39	39	44	37	50	36	42	29
38	38	42	36	50	35	41	28
37	37	40	35	49	34	40	28
36	37	39	35	49	33	39	27
35	36	38	34	48	32	39	26
34	35	37	33	48	31	38	26
33	34	36	32	47	30	37	25
32	34	36	32	47	29	36	25
31	33	35	31	46	28	35	24
30	32	34	30	46	27	34	24
29	31	33	29	45	26	33	23
28	30	32	28	45	25	31	22
27	29	32	27	44	24	30	22
26	29	31	26	43	23	29	21
25	28	30	24	42	22	27	21
24	27	29	23	42	21	26	20
23	26	28	22	41	20	25	19
22	25	28	21	40	19	23	18
21	24	27	20	38	18	22	17
20	23	26	19	37	17	20	17
19	22	25	17	36	16	19	17
18	21	24	17	34	16	18	16
17	19	23	16	33	15	16	15
16	18	22	14	31	14	15	15
15	17	20	13	29	13	14	14
14	16	19	13	28	12	13	13
13	15	18	11	24	11	12	12
12	14	17	11	22	10	12	11
11	13	16	10	19	10	11	10
10	11	14	9	17	9	10	9
9	10	13	9	15	8	9	8
8	9	12	8	14	7	8	7
7	8	10	7	12	6	8	6
6	7	8	6	10	5	7	5
5	6	7	5	8	4	6	5
4	5	5	4	7	3	5	4
3	4	4	3	5	2	3	3
2	3	3	2	4	1	2	2
1	2	2	1	2	0	1	1
Number of items							
40	40	50	38	50	38	42	30

READING COMPREHENSION

CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form G Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 10 Form 5 Reading Comprehension	MAT 1970 Elementary Form F Reading	SAT 1964 Intermediate 1 Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form C Reading	STEP II 1969 Level A Form A Part 2
Raw score	Equivalent raw score						
42	45	52	68	45	58	48	30
41	44	51	64	45	57	48	29
40	43	50	62	44	55	45	29
39	42	49	61	44	54	44	28
38	42	49	59	43	53	43	27
37	41	48	58	43	51	42	27
36	40	47	57	42	50	41	26
35	40	46	55	42	49	40	25
34	39	45	54	41	47	39	25
33	38	44	52	40	46	37	24
32	37	42	51	40	44	36	23
31	36	41	49	39	43	35	22
30	35	40	47	38	41	33	21
29	34	39	46	38	40	32	20
28	33	37	44	37	38	31	19
27	32	36	42	36	37	29	18
26	31	35	41	35	36	28	17
25	30	34	39	34	34	26	16
24	29	32	38	32	32	25	15
23	27	30	36	31	31	23	15
22	26	29	32	29	29	22	14
21	24	27	30	28	27	21	13
20	23	25	28	26	26	20	12
19	21	23	26	24	24	19	11
18	20	21	24	23	23	18	11
17	18	20	22	21	21	17	10
16	17	18	21	20	20	16	10
15	16	17	20	18	19	15	9
14	14	15	19	17	18	14	8
13	13	14	17	15	16	13	8
12	12	12	16	14	15	12	7
11	11	11	15	12	14	11	6
10	10	10	14	11	13	10	6
9	9	8	13	10	11	9	5
8	8	7	12	9	10	8	4
7	7	6	10	7	9	7	3
6	6	5	9	6	7	6	3
5	5	4	7	5	5	5	2
4	4	3	6	4	4	4	2
3	3	3	4	3	3	3	1
2	2	2	3	2	2	2	1
1	1	1	2	1	1	1	0
Number of items							
42	45	52	68	45	60	48	30

Table 1—Grade 4. Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. 1 Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
82	85	99	104	95	98	90	60
81	84	97	103	95	97	89	60
80	83	96	101	94	95	88	59
79	82	94	100	94	93	87	58
78	81	93	98	93	91	86	57
77	80	92	97	93	89	84	56
76	79	91	96	92	88	84	55
75	79	89	95	92	87	83	55
74	78	88	94	91	86	82	54
73	77	87	92	91	84	81	53
72	77	86	91	90	83	80	53
71	76	85	90	90	82	79	52
70	75	84	89	89	81	78	52
69	74	83	88	89	79	[illegible]	51
68	74	82	87	88	78	76	50
67	73	81	86	88	77	75	50
66	72	80	85	87	76	74	49
65	71	79	84	87	75	73	48
64	71	78	82	86	74	72	48
63	70	77	81	86	73	71	47
62	69	76	80	85	71	70	46
61	68	75	79	85	70	69	45
60	67	74	77	84	69	68	45
59	67	73	76	84	67	66	44
58	66	72	75	83	66	65	43
57	65	71	73	82	65	64	42
56	64	70	72	81	63	62	42
55	63	68	71	81	62	61	41
54	62	67	69	80	61	60	40
53	61	66	68	79	60	58	39
52	60	65	66	78	58	57	38
51	59	64	65	77	57	55	38
50	58	63	63	76	56	54	37
49	57	62	62	75	55	53	36
48	55	61	60	74	53	51	35
47	54	60	58	73	52	50	35
46	53	59	57	72	51	48	34
45	52	58	55	70	50	47	33
44	51	56	53	69	48	46	32
43	50	55	52	68	47	44	32
42	48	54	50	66	46	43	31
41	47	52	48	65	45	41	30
40	46	51	47	63	43	40	30
39	45	50	45	62	42	39	29
38	43	48	43	60	41	38	28
37	42	47	42	59	40	37	27
36	41	46	40	57	38	35	27
35	39	44	39	55	37	34	26
34	38	43	38	53	36	33	25
33	37	41	36	52	35	32	24
32	35	40	35	49	34	31	23
31	34	38	34	47	32	30	23
30	32	37	33	45	31	29	22
29	31	35	32	43	30	28	21
28	30	34	31	41	29	27	21
27	29	33	30	39	28	26	20
26	28	31	29	37	27	25	19
25	27	30	28	35	27	25	18
24	25	29	27	33	26	24	18
23	24	27	26	31	25	23	17
22	23	26	26	30	24	22	16
21	22	24	25	28	23	21	16
20	21	23	24	26	22	20	15
19	20	21	23	25	21	19	14
18	19	20	22	23	20	18	13
17	17	18	21	21	18	17	12
16	17	17	20	20	17	16	11
15	16	16	19	19	16	15	11
14	15	14	18	18	14	14	10
13	14	13	16	16	12	13	9
12	13	12	14	14	11	11	8
11	11	12	12	13	9	10	7
10	10	11	11	12	8	9	7
9	8	10	9	11	7	8	6
8	7	10	8	10	6	6	5
7	6	9	6	9	5	5	5
6	4	8	5	8	3	4	4
5	3	8	4	7	2	3	3
4	2	7	3	6	1	2	2
3	1	6	2	5	1	0	2
2	1	5	1	4	0	0	1
1	0	5	0	3	0	0	0
Number of items							
82	85	102	108	95	98	90	60

Table 2—Grade 4: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CTBS 1968 Level 2 Form G Vocabulary	CAT 1970 Level 3 Form A Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Inter. 1 Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
40	40	47	38	50	38	42	30
39	39	44	37	50	36	42	29
38	38	42	36	49	35	41	28
37	37	40	35	49	33	40	27
36	35	39	34	48	32	39	27
35	34	37	33	48	31	38	26
34	33	36	32	47	30	37	25
33	31	35	31	46	28	35	24
32	30	34	30	46	27	34	24
31	29	33	29	45	26	33	23
30	28	32	28	44	25	31	22
29	27	31	26	44	24	30	22
28	25	30	25	43	23	28	21
27	24	30	24	42	22	27	20
26	23	29	23	41	21	25	20
25	22	28	21	40	20	23	19
24	21	27	20	39	19	22	18
23	20	26	19	38	18	21	18
22	19	25	18	36	17	19	17
21	18	24	17	35	16	18	16
20	18	23	16	34	15	17	16
19	17	22	15	32	14	16	15
18	16	21	14	30	14	15	14
17	15	20	14	29	13	14	14
16	14	19	13	27	12	13	13
15	13	18	12	25	11	13	12
14	12	17	11	22	11	12	11
13	11	16	11	20	10	11	11
12	11	15	10	18	9	10	10
11	10	14	9	16	8	10	9
10	9	13	8	15	8	9	8
9	8	11	8	13	7	8	7
8	7	10	7	12	6	7	6
7	6	9	6	10	5	7	6
6	5	8	5	9	4	6	5
5	4	6	4	7	3	5	4
4	3	4	3	6	2	4	3
3	2	3	2	4	2	3	2
2	1	2	1	2	1	1	2
1	0	1	0	1	0	1	1
Number of items							
40	40	50	38	50	38	42	30

READING COMPREHENSION

CTBS 1968 Level 2 Form G Comprehension	CAT 1970 Level 3 Form A Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 10 Form 5 Reading Comprehension	MAT 1970 Elementary Form F Reading	SAT 1964 Inter. 1 Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
45	42	52	66	45	59	48	30
44	41	51	64	45	57	46	29
43	40	50	62	44	55	45	29
42	39	49	60	43	53	43	28
41	37	48	58	43	51	42	27
40	36	46	56	42	49	40	26
39	34	45	54	41	48	39	25
38	33	44	52	40	46	37	24
37	32	42	50	40	44	36	23
36	31	41	48	39	42	34	22
35	30	39	47	38	41	33	21
34	29	38	45	37	39	31	20
33	28	37	43	36	38	30	19
32	27	36	42	35	36	29	18
31	26	35	40	34	35	27	17
30	25	33	39	33	34	26	16
29	24	32	37	32	33	25	16
28	24	31	35	31	31	24	15
27	23	30	34	31	30	23	14
26	22	29	32	29	29	22	14
25	22	28	31	28	28	21	13
24	21	27	30	27	27	21	13
23	20	26	28	26	26	20	12
22	20	25	27	25	25	19	12
21	19	24	26	24	24	19	11
20	18	22	24	23	23	18	11
19	18	21	23	22	22	17	11
18	17	20	22	21	21	17	10
17	16	18	21	20	20	16	10
16	15	17	20	19	19	15	9
15	15	16	19	17	18	14	9
14	14	14	18	16	17	14	8
13	13	13	17	15	16	13	7
12	12	12	16	13	15	12	7
11	11	11	15	12	14	11	6
10	10	9	14	11	12	10	5
9	9	8	13	10	11	9	5
8	8	7	11	8	10	8	4
7	7	6	10	7	8	7	3
6	6	5	8	6	7	6	3
5	5	4	7	5	5	5	2
4	4	3	6	4	4	4	2
3	3	3	4	3	3	3	1
2	2	2	3	2	2	2	1
1	1	1	2	1	1	1	0
Number of items							
45	42	52	68	45	60	45	30

Table 2—Grade 4: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other tests (continued)

TOTAL READING

CTBS 1968 Level 2 Form G	CAT 1970 Level 3 Form A	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. 1 Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
85	82	99	104	95	98	90	60
84	81	97	103	95	97	89	60
83	80	96	102	94	95	88	59
82	79	94	100	94	93	87	58
81	78	93	99	93	91	86	57
80	77	92	97	93	89	84	56
79	76	90	95	92	88	83	55
78	74	89	94	91	86	82	54
77	73	87	92	91	84	81	53
76	71	86	91	90	82	80	52
75	70	84	89	89	81	78	52
74	69	83	88	89	79	77	51
73	67	82	86	88	77	76	50
72	66	80	85	87	76	74	49
71	65	79	83	87	74	73	48
70	63	78	82	86	73	72	47
69	62	76	80	85	71	70	46
68	61	75	78	85	70	69	45
67	60	74	77	84	68	67	44
66	58	73	75	83	67	66	44
65	57	71	74	82	65	64	43
64	56	70	72	82	64	63	42
63	55	69	71	81	62	61	41
62	54	68	69	80	61	60	40
61	53	67	68	79	60	58	39
60	52	66	67	78	59	57	39
59	51	65	65	77	58	56	38
58	50	64	64	76	56	54	37
57	49	63	62	75	55	53	37
56	48	62	61	74	54	52	36
55	46	61	60	73	53	51	35
54	47	60	58	72	52	49	34
53	46	59	56	71	51	48	34
52	45	58	55	70	50	47	33
51	44	57	54	69	49	46	32
50	43	55	52	68	47	45	32
49	43	54	51	67	47	44	31
48	42	53	50	66	46	43	31
47	41	52	48	65	45	41	30
46	40	51	47	64	44	40	30
45	39	50	46	62	43	39	29
44	39	49	44	61	42	38	28
43	38	48	43	60	41	38	28
42	37	47	42	59	40	37	27
41	36	46	41	57	39	36	27

CTBS 1968 Level 2 Form G	CAT 1970 Level 3 Form A	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. 1 Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
40	35	45	40	56	38	35	26
39	35	44	39	55	37	34	26
38	34	43	38	54	36	33	25
37	33	42	37	52	35	32	25
36	33	41	35	51	34	32	24
35	32	40	35	49	34	31	23
34	31	39	34	48	33	30	23
33	31	37	33	46	32	29	22
32	30	36	32	45	31	28	22
31	29	35	32	43	30	28	21
30	28	34	31	41	29	27	21
29	27	33	30	40	29	26	20
28	26	32	29	38	28	26	19
27	25	30	28	36	27	25	19
26	25	29	28	34	26	24	18
25	24	28	27	32	25	23	17
24	23	27	26	31	24	23	17
23	22	25	25	29	23	22	16
22	21	24	24	27	22	21	15
21	20	22	24	26	21	20	15
20	19	21	23	24	20	19	14
19	18	19	22	23	19	18	13
18	17	18	21	21	18	17	12
17	16	17	19	20	17	16	11
16	15	15	18	18	16	15	10
15	14	14	17	17	14	14	10
14	13	13	16	16	12	13	9
13	12	13	14	15	11	12	8
12	12	12	13	14	10	11	8
11	11	12	12	13	9	10	7
10	10	11	11	12	8	9	7
9	9	11	10	12	8	8	6
8	9	10	9	11	7	7	6
7	8	10	8	10	6	6	5
6	7	9	8	9	5	6	5
5	6	9	6	9	4	5	4
4	6	8	5	8	3	4	4
3	5	8	4	7	2	3	3
2	4	7	3	6	1	2	3
1	3	6	2	5	1	2	2
Number of test							
85	82	102	108	95	98	90	60

Table 3–Grade 4: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

GMT 1964 Survey D Form 1M Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form G Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Inter. 1 Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
50	40	40	38	50	38	42	30
49	40	40	38	50	38	42	30
48	40	40	38	50	38	42	30
47	40	40	38	50	38	42	30
46	40	40	38	50	37	42	30
45	39	39	38	50	37	42	29
44	39	39	37	50	36	42	29
43	39	39	37	50	36	41	29
42	38	38	37	50	35	41	29
41	38	38	36	49	34	41	28
40	37	37	36	49	33	40	28
39	36	36	35	48	32	39	27
38	35	36	34	48	31	38	26
37	34	35	33	47	30	37	26
36	33	34	32	47	29	36	25
35	31	33	31	46	28	35	24
34	30	32	30	46	27	34	24
33	29	31	29	45	26	33	23
32	28	30	27	44	25	31	22
31	26	29	26	43	23	29	21
30	25	28	25	42	22	28	21
29	24	26	23	41	21	26	20
28	23	25	22	40	20	24	19
27	21	24	20	39	19	22	18
26	20	23	19	38	18	21	18
25	19	22	18	36	17	19	17
24	18	21	17	35	16	18	16
23	17	20	16	33	15	17	15
22	16	19	15	32	14	16	15
21	16	18	14	30	13	15	14
20	15	17	13	28	13	14	13
19	14	16	12	26	12	13	13
18	13	15	12	24	11	12	12
17	12	14	11	22	10	12	11
16	11	13	10	20	10	11	10
15	11	12	10	18	9	10	10
14	10	11	9	17	9	10	9
13	9	10	9	15	8	9	8
12	8	10	8	14	7	9	8
11	8	9	7	13	7	8	7
10	7	8	7	12	6	7	6
9	6	7	6	10	5	7	6
8	6	6	6	9	5	6	5
7	5	6	5	8	4	6	5
6	4	5	4	7	3	5	4
5	4	5	4	7	3	4	3
4	3	4	3	5	2	3	3
3	2	3	2	4	1	2	2
2	1	2	1	2	1	1	1
1	1	1	0	1	0	0	1
Number of items 50	40	40	38	50	38	42	30

READING COMPREHENSION

GMT 1964 Survey D Form 1M Compre hension	CAT 1970 Level 3 Form A Compre hension	CTBS 1968 Level 2 Form G Compre hension	ITBS 1971 Level 10 Form 5 Reading Compre hension	MAT 1970 Elementary Form F Reading	SAT 1964 Inter. 1 Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
52	42	45	68	45	59	48	30
51	41	44	64	45	57	46	29
50	40	43	62	44	55	44	29
49	39	42	60	43	53	43	28
48	37	41	59	43	52	42	27
47	36	41	57	42	51	41	26
46	35	40	56	42	49	40	26
45	34	39	54	41	48	39	25
44	33	38	53	41	46	38	24
43	33	38	51	40	45	36	23
42	32	37	50	40	44	35	23
41	31	36	49	39	43	34	22
40	30	35	47	38	41	33	21
39	29	35	46	38	40	32	20
38	29	34	45	37	39	31	20
37	28	33	44	36	38	30	19
36	27	32	42	36	37	29	18
35	26	31	41	35	35	28	18
34	25	31	40	34	35	27	17
33	25	30	38	33	33	26	16
32	24	29	36	32	32	25	16
31	24	28	35	31	31	24	15
30	23	27	34	31	30	23	15
29	22	26	33	30	29	22	14
28	22	25	31	29	28	22	14
27	21	24	30	28	28	21	13
26	20	24	29	27	27	20	13
25	20	23	28	26	25	20	12
24	20	22	27	25	25	19	12
23	19	21	26	24	24	19	11
22	19	20	25	23	23	18	11
21	18	19	23	22	22	18	11
20	17	18	22	21	22	17	10
19	17	18	22	20	21	16	10
18	16	17	21	19	20	16	9
17	15	16	20	18	19	15	9
16	15	15	19	17	18	15	9
15	14	14	19	16	17	14	8
14	13	14	18	15	17	13	8
13	13	13	17	14	16	13	7
12	12	12	16	13	15	12	7
11	11	11	15	12	14	11	6
10	10	11	14	11	13	10	6
9	10	10	13	10	12	10	5
8	9	9	12	9	11	9	5
7	8	8	12	8	10	8	4
6	7	7	10	7	9	7	3
5	6	6	9	6	7	6	3
4	5	5	7	5	6	5	2
3	4	4	5	4	4	3	2
2	2	2	3	2	2	2	1
1	1	1	1	1	1	1	0
Number of items 52	42	45	68	45	60	48	30

Table 3–Grade 4: Raw scores for the Gates MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

GMT 1964 Survey G Form 1M	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form U	ITBS 1971 Level 10 Form S	MAT 1970 Elementary Form F	SAT 1964 Level 1 Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
102	82	85	105	95	98	97	60
101	82	85	105	95	98	96	60
100	82	85	105	95	98	90	60
99	82	85	104	95	98	90	60
98	82	85	103	95	98	90	60
97	81	84	102	95	97	89	60
96	80	83	101	95	95	88	59
95	80	83	100	94	94	87	58
94	79	82	99	94	92	87	58
93	78	81	98	93	91	86	57
92	77	80	97	93	90	85	56
91	76	80	96	92	88	84	56
90	76	79	95	92	87	83	55
89	75	78	94	92	86	83	54
88	74	78	93	91	85	82	54
87	73	77	92	91	84	81	53
86	72	76	91	90	83	80	53
85	71	76	90	90	81	79	52
84	70	75	89	89	80	78	51
83	69	74	88	89	79	77	51
82	68	73	87	88	78	76	50
81	67	73	86	88	77	75	50
80	66	72	84	87	76	74	49
79	65	71	83	87	74	73	48
78	64	70	82	86	73	72	48
77	63	70	81	86	72	71	47
76	62	69	80	85	71	70	46
75	61	68	79	85	70	69	45
74	60	67	77	84	68	67	45
73	59	66	76	83	67	66	44
72	58	66	75	83	66	65	43
71	57	65	74	82	65	64	43
70	56	64	73	82	64	63	42
69	56	63	71	81	63	62	41
68	55	62	70	80	62	60	41
67	54	61	69	79	60	59	40
66	53	60	67	79	59	58	39
65	52	59	66	78	58	56	38
64	51	58	65	77	57	55	38
63	50	57	63	76	56	54	37
62	49	56	62	75	55	52	36
61	48	55	60	74	53	51	35
60	47	54	58	73	52	50	35
59	46	53	57	72	51	48	34
58	45	52	55	71	50	47	33
57	45	51	54	70	49	46	33
56	44	51	53	69	48	45	32
55	43	50	52	68	47	44	32
54	42	49	50	67	46	43	31
53	42	48	49	66	45	42	31
52	41	47	48	64	44	41	30
51	40	46	47	63	43	40	30
50	39	45	45	62	42	39	29
49	39	44	44	61	41	38	28
48	38	43	43	60	41	37	28

GMT 1964 Survey G Form 1M	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form U	ITBS 1971 Level 10 Form S	MAT 1970 Elementary Form F	SAT 1964 Level 1 Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
47	37	42	42	58	40	37	27
46	36	41	41	57	39	36	27
45	36	40	40	56	38	35	26
44	35	39	39	55	37	34	26
43	34	38	38	54	36	33	25
42	34	37	37	52	35	33	25
41	33	36	36	51	35	32	24
40	32	35	35	50	34	31	24
39	32	34	34	48	33	30	23
38	31	34	34	47	32	30	23
37	30	33	33	46	32	29	22
36	30	32	32	44	31	28	22
35	29	31	31	43	30	28	21
34	28	30	31	41	29	27	20
33	27	29	30	40	29	26	20
32	27	28	29	38	28	26	20
31	26	28	29	37	27	25	19
30	25	27	28	36	27	25	18
29	24	26	28	34	26	24	18
28	24	25	27	33	25	23	17
27	23	25	26	31	25	23	17
26	22	24	26	30	24	22	16
25	22	23	25	29	23	22	16
24	21	22	25	28	23	21	15
23	20	22	24	26	22	20	15
22	20	21	23	25	21	20	14
21	19	20	23	24	21	19	14
20	18	19	22	23	20	19	13
19	18	19	21	22	19	18	13
18	17	18	21	21	18	17	12
17	16	17	20	20	17	16	11
16	15	17	19	19	16	15	11
15	14	16	18	18	15	14	10
14	14	15	17	17	14	13	9
13	13	14	15	15	13	12	9
12	12	12	13	14	10	11	8
11	10	10	11	12	8	9	7
10	9	8	9	11	6	7	6
9	7	6	6	9	5	5	5
8	6	4	4	8	3	4	4
7	4	2	3	6	2	2	3
6	3	1	2	5	1	0	2
5	1	0	1	3	0	0	1
4	0	0	0	2	0	0	0
3	0	0	0	1	0	0	0
2	0	0	0	1	0	0	0
1	0	0	0	1	0	0	0
Number of items							
102	85	85	108	95	98	90	60

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Table 4—Grade 4: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

ITBS 1971 Level 10 Form 5 Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form G Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Intermediate Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
38	40	40	47	50	38	42	30
37	39	39	43	50	36	41	29
36	38	38	41	49	34	40	28
35	36	37	39	49	33	39	27
34	35	36	38	48	32	38	26
33	34	35	37	48	30	37	26
32	33	34	36	47	29	36	25
31	32	33	35	46	28	35	24
30	30	32	34	46	27	34	24
29	29	31	33	45	26	33	23
28	28	30	33	45	25	32	23
27	27	30	32	44	24	31	22
26	26	29	31	44	24	29	21
25	26	28	30	43	23	28	21
24	25	27	30	42	22	27	20
23	24	26	29	41	21	26	20
22	23	26	28	40	20	24	19
21	22	25	28	40	19	23	19
20	21	24	27	39	19	22	18
19	21	23	26	38	18	21	18
18	20	22	25	38	17	19	17
17	19	21	24	35	16	18	16
16	17	20	23	34	15	17	16
15	17	19	22	32	14	16	15
14	16	18	21	30	13	15	14
13	15	16	20	27	12	14	13
12	13	15	19	25	11	13	12
11	12	14	17	22	10	12	11
10	11	12	15	19	9	11	10
9	10	11	14	16	8	10	9
8	8	10	12	14	7	9	8
7	7	8	10	12	6	8	7
6	6	7	9	10	5	7	6
5	5	6	7	9	4	6	5
4	4	5	5	7	3	5	4
3	3	4	4	5	2	3	3
2	2	3	3	4	2	2	2
1	1	2	2	2	1	1	2
Number of items							
38	40	40	50	50	38	42	30

READING COMPREHENSION

ITBS 1971 Level 10 Form 5 Reading Comprehension	CAT 1970 Level 3 Form A Complete Version	CTBS 1968 Level 2 Form G Complete Version	GMT 1964 Survey D Form 1M Complete Version	MAT 1970 Elementary Form F Reading	SAT 1964 Intermediate Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
58	47	45	52	45	60	48	30
57	47	45	52	45	59	48	30
56	47	45	52	45	59	48	30
55	47	45	52	45	58	47	30
54	47	44	51	45	57	46	29
53	47	44	51	45	56	46	29
52	46	43	50	44	55	45	29
51	46	43	50	44	54	44	28
50	45	42	49	44	53	43	28
49	44	42	48	43	52	43	27
48	43	41	48	43	51	42	27
47	43	41	47	42	50	41	26
46	42	40	46	42	49	40	26
45	41	40	46	42	48	39	25
44	41	39	45	41	47	39	25
43	40	39	44	41	46	38	24
42	40	38	44	40	45	37	24
41	39	37	43	40	45	36	23
40	39	36	42	40	44	35	23
39	38	36	41	39	43	35	22
38	38	35	41	39	42	34	22
37	37	35	40	38	41	33	21
36	36	34	39	38	40	32	20
35	35	34	38	37	39	31	20
34	34	33	37	37	38	31	19
33	33	32	37	36	38	30	19
32	32	32	36	36	37	29	18
31	32	31	35	35	36	28	18
30	31	30	34	35	35	27	17
29	30	30	34	34	34	27	17
28	30	29	33	33	34	26	16
27	29	29	33	33	33	25	16
26	29	28	32	32	32	25	15
25	28	28	31	31	31	24	15
24	27	27	30	31	31	23	15
23	27	27	29	30	30	23	14
22	26	26	29	29	29	22	14
21	25	26	28	29	28	21	13
20	24	25	27	28	27	21	13
19	23	24	26	27	27	20	13
18	23	23	25	26	26	20	12
17	22	22	24	25	25	19	12
16	21	21	23	25	24	19	12
15	19	21	22	24	24	18	11
14	18	20	22	23	23	18	11
13	18	19	21	22	22	17	11
12	17	18	20	21	21	17	10
11	16	17	18	20	20	16	10
10	15	16	17	19	19	15	9
9	14	15	16	17	18	14	9
8	14	14	14	16	17	14	9
7	13	13	13	15	16	13	8
6	12	12	12	13	15	12	7
5	11	11	11	12	14	11	6
4	10	10	10	11	13	10	6

Table 4—Grade 4: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

ITBS 1971 Level 10 Form 5 Reading Comprehension	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	[illegible] Survey D Form 1M Comprehension	MAT 1970 Elementary Form F Reading	SAT 1964 Inter. I Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw scores						
13	9	9	9	10	11	9	5
12	8	8	7	9	10	8	4
11	8	8	7	8	9	8	4
10	7	7	6	7	8	7	3
9	6	6	5	6	7	6	3
8	6	6	4	6	6	5	3
7	5	5	4	5	5	5	2
6	4	4	3	4	5	4	2
5	4	4	3	4	4	4	2
4	3	3	3	3	3	3	1
3	2	2	2	2	2	2	1
2	1	1	2	1	1	2	0
1	1	1	1	1	1	1	0
Number of items							
68	42	45	52	45	60	48	30

Table 4—Grade 4: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971 Level 10 Form 5	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	MAT 1970 Elementary Form F	SAT 1964 Inter. I Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
106	82	85	100	95	98	90	60
105	82	85	100	95	98	90	60
104	82	85	99	95	98	90	60
103	81	84	98	95	97	89	60
102	81	83	97	95	96	89	59
101	80	83	96	94	95	88	59
100	79	82	95	94	93	87	58
99	79	81	94	94	92	86	57
98	78	81	93	93	91	85	57
97	77	80	92	93	89	85	56
96	76	79	91	92	88	84	55
95	75	79	90	92	87	83	55
94	74	78	89	91	86	82	54
93	74	78	88	91	85	82	54
92	73	77	87	91	84	81	53
91	72	76	86	90	82	80	53
90	71	76	85	90	81	79	52
89	70	75	84	89	80	78	51
88	69	74	83	89	79	77	51
87	68	74	82	88	78	76	50
86	67	73	81	88	77	75	50
85	6	72	81	88	76	75	49
84	6	72	80	87	75	74	49
83	6	71	79	87	74	73	48
82	64	70	78	86	73	72	48
81	63	70	77	86	72	71	47
80	62	69	76	85	71	70	46
79	61	69	76	85	70	69	46
78	61	68	75	85	69	68	45
77	60	67	74	84	68	67	45
76	59	67	73	84	67	66	44
75	58	66	72	83	66	66	43
74	58	65	71	83	65	64	43
73	57	65	71	82	64	63	42
72	56	64	70	81	63	63	42
71	55	63	69	81	63	61	41
70	55	63	68	80	62	60	41
69	54	62	67	80	61	59	40
68	53	61	67	79	60	58	39
67	53	60	66	78	59	57	39
66	52	60	65	78	58	56	38
65	51	59	64	77	57	56	38
64	51	58	64	76	57	55	37
63	50	58	63	76	56	54	37
62	49	57	62	75	55	53	36
61	49	56	62	74	54	52	36
60	48	55	61	74	53	51	35
59	47	55	60	73	53	50	35
58	47	54	60	72	52	49	35
57	46	53	59	72	51	49	34
56	46	53	59	71	50	48	34
55	45	52	58	70	50	47	33
54	44	51	57	70	49	46	33
53	44	51	56	69	48	45	32
52	43	50	55	68	47	44	32
51	43	49	55	67	47	44	31
50	42	48	54	66	46	43	31
49	42	48	53	66	45	42	31
48	41	47	52	65	44	41	30
47	40	46	51	64	44	41	30
46	40	45	51	63	43	40	29
45	39	45	50	62	42	39	29
44	38	44	49	61	41	38	28
43	38	43	48	60	41	37	28
42	37	42	47	59	40	37	27
41	37	41	47	58	39	36	27
40	36	40	45	57	38	35	26
39	35	39	44	55	37	34	26
38	34	38	43	54	36	34	25
37	34	37	42	53	36	33	25
36	33	36	41	51	35	32	24
35	32	35	40	50	34	31	23
34	31	34	39	48	33	30	23
33	30	33	37	46	32	29	22
32	29	32	36	44	31	28	22
31	28	30	34	42	30	27	21
30	27	29	33	40	29	26	20
29	26	28	31	37	27	25	19
28	25	27	30	35	26	24	18
27	24	25	28	33	25	24	17
26	23	24	27	30	24	22	17
25	21	23	25	28	23	21	16
24	20	22	23	27	22	20	15
23	19	20	21	25	21	20	14
22	18	19	20	23	20	19	13
21	17	18	19	22	19	18	13
20	16	18	17	20	18	17	12
19	15	17	16	19	17	15	11
18	14	16	15	18	15	14	10
17	14	15	14	17	14	14	10
16	13	14	14	16	13	13	9
15	13	14	13	15	12	12	9
14	12	13	13	15	11	12	8
13	12	12	12	14	10	11	8
12	11	11	12	13	9	10	7
11	10	10	11	12	8	9	7
10	9	9	11	12	8	8	6
9	9	8	10	11	7	7	6
8	8	7	10	10	6	6	5
7	7	6	9	10	5	6	5
6	7	5	9	9	4	5	4
5	6	4	8	8	3	4	4
4	5	3	8	7	3	3	3
3	4	2	7	7	2	2	3
2	3	1	6	6	1	2	2
1	2	1	5	5	1	1	2
Number of items 106	82	86	102	96	98	90	60

Table 5—Grade 4: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

MAT 1970 Elementary Form F Word Knowledge	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	SAT 1964 Inter. I Form W Word Meaning	SRA-ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
50	39	39	44	37	36	42	29
49	37	37	40	36	34	40	28
48	35	36	38	34	32	39	26
47	33	34	36	32	30	37	25
46	31	33	35	30	28	35	24
45	29	31	33	29	26	33	23
44	27	30	32	27	24	31	22
43	26	28	31	25	23	29	21
42	25	27	30	24	22	27	20
41	23	26	29	23	21	25	20
40	22	25	28	22	20	24	19
39	22	24	27	20	19	22	18
38	21	23	26	19	18	21	18
37	20	23	26	19	17	20	17
36	19	22	25	18	17	19	17
35	19	21	24	17	16	18	16
34	18	20	24	16	15	17	16
33	17	20	23	16	15	17	15
32	17	19	22	15	14	16	15
31	16	18	22	15	14	15	15
30	16	18	21	14	13	15	14
29	15	17	21	14	13	14	14
28	15	17	20	13	13	14	13
27	14	16	20	13	12	14	13
26	14	16	19	13	12	13	13
25	14	15	19	12	12	13	12
24	13	15	18	12	11	12	12
23	13	14	18	12	11	12	12
22	12	14	17	11	10	12	11
21	12	13	17	11	10	11	11
20	11	13	16	11	10	11	11
19	11	12	16	10	9	11	10
18	11	12	15	10	9	10	10
17	10	11	14	9	9	10	9
16	10	11	14	9	8	10	9
15	9	10	13	9	8	9	8
14	8	10	12	8	7	9	8
13	8	9	11	8	7	8	7
12	7	8	10	7	6	8	7
11	7	8	10	6	5	7	6
10	6	7	9	6	5	7	5
9	5	6	8	5	4	6	5
8	5	6	7	5	4	5	4
7	4	5	5	4	3	5	4
6	4	4	5	3	3	4	3
5	3	3	4	3	2	3	3
4	2	3	3	2	2	2	2
3	2	2	3	2	1	2	2
2	1	2	2	1	1	1	1
1	1	1	1	0	0	0	1
Number of items							
50	40	40	50	38	38	42	30

READING COMPREHENSION

MAT 1970 Elementary Form F Reading	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 10 Form 5 Reading Comprehension	SAT 1964 Inter. I Form W Paragraph Meaning	SRA-ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
45	42	45	52	65	58	47	30
44	40	43	50	61	55	44	28
43	38	42	48	59	52	43	27
42	36	40	47	56	50	41	26
41	34	39	45	54	47	38	25
40	32	38	43	51	45	36	23
39	31	36	41	49	43	34	22
38	30	35	40	47	41	33	21
37	28	34	38	45	39	31	20
36	27	33	36	43	37	30	19
35	26	32	35	41	36	28	18
34	25	31	34	40	35	27	17
33	25	30	33	38	33	26	16
32	24	29	32	36	32	25	15
31	23	28	31	35	31	24	15
30	23	27	29	33	30	23	14
29	22	26	28	32	29	22	14
28	21	25	27	30	28	21	13
27	21	24	26	29	27	20	13
26	20	23	25	28	26	20	12
25	20	22	24	27	25	19	12
24	19	21	23	25	24	19	11
23	18	20	22	24	23	18	11
22	18	19	21	23	22	17	11
21	17	18	20	22	21	17	10
20	16	17	19	21	20	16	10
19	16	16	18	20	20	15	9
18	15	16	17	20	19	15	9
17	14	15	16	19	18	14	8
16	14	14	15	16	17	14	8
15	13	13	14	17	8	13	8
14	12	13	13	17	15	12	7
13	12	12	12	16	15	12	7
12	11	11	11	15	14	11	6
11	10	10	10	14	13	10	6
10	9	9	9	13	12	9	5
9	8	9	8	12	10	9	4
8	8	8	7	11	9	8	4
7	7	7	6	10	8	7	3
6	6	6	5	9	7	6	3
5	5	5	4	7	5	5	2
4	4	4	3	6	4	4	2
3	3	3	3	4	3	3	1
2	2	2	2	3	2	2	1
1	1	1	1	2	1	1	0
Number of items							
45	42	45	52	68	60	48	30

Table 5—Grade 4: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

MAT 1970 Elementary Form F	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	SAT 1964 Inter. I Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
95	81	84	97	103	97	90	60
94	80	82	95	101	94	87	58
93	78	81	93	98	91	85	57
92	76	79	90	96	88	83	55
91	74	78	88	93	85	82	54
90	71	76	86	91	82	80	53
89	69	75	84	89	80	78	51
88	67	73	82	86	78	76	50
87	65	72	80	84	75	74	49
86	63	70	78	81	73	72	47
85	62	69	76	79	71	70	46
84	60	67	74	77	68	67	45
83	58	66	72	75	66	65	43
82	57	65	71	73	65	64	42
81	56	63	69	71	63	62	41
80	54	62	68	70	61	60	40
79	53	61	67	68	60	58	39
78	52	60	65	67	59	57	39
77	51	59	64	65	57	56	38
76	50	58	63	63	56	54	37
75	49	57	62	62	55	53	36
74	48	56	61	60	54	51	36
73	47	55	60	59	53	50	35
72	46	54	59	58	52	49	34
71	46	53	58	56	50	48	34
70	45	52	57	55	49	47	33
69	44	51	56	53	48	45	32
68	43	50	55	52	47	44	32
67	43	49	54	51	46	44	31
66	42	48	53	50	46	43	31
65	41	47	53	48	45	42	30
64	41	46	52	47	44	41	30
63	40	46	51	46	43	40	29
62	39	45	50	45	42	39	29
61	39	44	49	44	42	38	28
60	38	43	48	43	41	38	28
59	37	42	48	42	40	37	28
58	37	42	47	41	39	36	27
57	36	41	46	40	38	35	27
56	36	40	45	40	38	35	26
55	35	39	44	39	37	34	26
54	34	38	43	38	36	34	25
53	34	38	43	37	36	33	25
52	33	37	42	37	35	32	24
51	33	36	41	36	35	32	24
50	32	36	40	35	34	31	24
49	32	35	40	35	33	31	23
48	31	34	39	34	33	30	23
47	31	34	38	34	32	30	23
46	30	33	37	33	32	29	22

MAT 1970 Elementary Form F	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	SAT 1964 Inter. I Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
45	30	32	37	33	31	29	22
44	29	32	36	32	31	28	22
43	29	31	35	32	30	28	21
42	29	31	35	31	30	27	21
41	28	30	34	31	29	27	20
40	27	29	33	30	29	26	20
39	27	29	33	30	28	26	20
38	26	28	32	29	28	26	19
37	26	28	31	29	27	25	19
36	25	27	30	28	27	25	19
35	25	27	30	28	26	24	18
34	24	26	29	28	26	24	18
33	24	25	28	27	25	24	18
32	23	25	28	27	25	23	17
31	23	24	27	26	25	23	17
30	22	24	26	26	24	22	16
29	22	23	25	25	23	22	16
28	21	23	24	25	23	21	16
27	21	22	24	24	22	21	15
26	20	21	23	24	22	20	15
25	19	21	22	23	21	20	14
24	19	20	21	23	20	19	14
23	18	19	20	22	20	19	13
22	17	19	19	21	19	18	13
21	17	18	18	21	18	17	12
20	16	17	17	20	17	16	11
19	15	17	16	19	16	15	11
18	14	16	15	18	15	15	10
17	14	15	14	17	14	14	10
16	13	14	14	16	13	13	9
15	13	13	13	15	11	12	8
14	12	12	12	13	10	11	8
13	11	11	12	12	9	10	7
12	10	10	11	11	8	9	7
11	9	8	10	9	7	7	6
10	8	7	9	8	6	6	5
9	7	6	9	6	4	5	4
8	6	4	8	5	3	4	4
7	5	3	7	4	2	3	3
6	4	2	7	2	1	2	2
5	3	1	6	1	0	1	2
4	2	0	5	0	0	1	1
3	1	0	5	0	0	1	1
2	1	0	4	0	0	0	1
1	1	0	3	0	0	0	0
Number of items							
95	81	85	102	106	98	90	60

Table 6—Grade 4: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SAT 1964 Inter. I Form W Word Meaning	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SRA-ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
38	40	40	48	38	50	42	30
37	40	40	46	38	50	42	30
36	39	39	44	37	50	42	29
35	38	38	42	37	50	41	28
34	37	38	41	36	49	40	28
33	36	37	40	35	49	40	27
32	35	36	39	34	48	39	27
31	34	35	38	34	48	38	26
30	33	34	37	33	47	37	26
29	32	34	36	32	47	36	25
28	31	33	35	31	46	35	24
27	30	32	34	30	46	34	24
26	29	31	33	29	45	33	23
25	28	30	32	28	45	32	23
24	27	29	32	27	44	30	22
23	26	28	31	25	43	29	21
22	25	27	30	24	42	27	21
21	24	26	29	23	41	26	20
20	23	25	28	22	40	24	19
19	22	24	27	21	39	23	18
18	21	23	26	19	38	21	18
17	20	22	25	18	37	20	17
16	19	21	24	17	35	18	16
15	17	20	23	16	33	17	16
14	16	19	22	15	31	16	15
13	15	17	21	14	29	14	14
12	14	16	19	13	27	13	13
11	13	15	18	12	24	12	12
10	12	13	17	11	21	11	11
9	10	12	15	10	18	10	10
8	9	11	13	9	16	9	9
7	8	9	12	8	14	8	8
6	7	8	10	7	12	8	7
5	6	7	9	6	10	7	6
4	5	6	7	5	9	6	5
3	4	5	5	4	7	5	4
2	3	3	4	3	5	3	3
1	2	2	3	1	3	2	2
Number of items							
38	40	40	50	38	50	42	30

READING COMPREHENSION

SAT 1964 Inter. I Form W Paragraph Meaning	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 10 Form 5 Reading Comprehension	MAT 1970 Elementary Form F Reading	SRA-ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
60	42	45	52	68	45	48	30
59	42	45	52	67	45	48	30
58	42	45	52	65	45	47	30
57	41	44	51	64	45	46	29
56	40	44	51	63	44	45	29
55	40	43	50	62	44	45	29
54	39	43	50	61	44	44	28
53	38	42	49	60	43	43	28
52	38	41	48	59	43	42	27
51	37	41	47	58	43	42	27
50	36	40	47	57	42	41	26
49	35	40	46	56	42	40	26
48	35	39	45	55	41	39	25
47	34	39	45	54	41	38	25
46	33	38	44	53	41	37	24
45	33	38	43	51	40	36	23
44	32	37	42	50	40	36	23
43	31	37	41	49	39	35	22
42	31	36	41	48	39	34	22
41	30	35	40	47	38	33	21
40	29	35	39	46	38	32	20
39	29	34	38	45	37	31	20
38	28	33	37	44	37	30	19
37	27	33	36	42	36	29	18
36	26	32	35	41	35	28	18
35	26	31	34	40	34	27	17
34	25	30	34	39	34	26	17
33	24	29	33	37	33	25	16
32	24	29	32	36	32	25	15
31	23	28	31	35	31	24	15
30	23	27	30	33	30	23	14
29	22	26	29	32	29	22	14
28	22	25	28	31	28	21	13
27	21	24	26	30	27	21	13
26	20	23	25	28	26	20	12
25	20	22	24	27	25	19	12
24	19	21	23	26	24	19	11
23	18	20	22	24	23	18	11
22	18	19	21	23	22	17	10
21	17	18	19	22	21	17	10
20	16	17	18	21	20	16	10
19	15	16	17	20	18	15	9
18	14	15	16	19	17	14	9
17	14	14	15	18	16	14	8
16	13	13	13	17	15	13	7
15	12	12	12	16	14	12	7
14	11	11	11	15	12	11	6
13	10	11	10	14	11	10	6
12	10	10	9	14	10	10	5
11	9	9	8	13	10	9	5
10	8	8	7	12	9	8	4
9	7	8	6	11	8	7	4
8	7	7	6	10	7	7	3
7	6	6	5	9	6	6	3
6	6	6	4	8	6	5	3

Table 6–Grade 4: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

SAT 1964 Inter. I Form W Paragraph Meaning	CAT 1970 Level 3 Form A Compre hension	CTBS 1968 Level 2 Form Q Compre hension	GMT 1964 Survey D Form 1M Compre hension	ITBS 1971 Level 10 Form 5 Reading Compre hension	MAT 1970 Elementary Form F Reading	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
5	5	5	4	7	5	5	2
4	4	4	3	5	4	4	2
3	3	3	3	4	3	3	1
2	2	2	2	3	2	2	1
1	1	1	1	2	1	1	0
Number of items							
50	42	45	52	68	45	48	30

Table 6—Grade 4: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SAT 1964 Inter. I Form W	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	iTBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
98	82	85	98	104	98	90	60
97	81	84	97	103	95	90	60
96	81	84	97	102	95	89	59
95	80	83	96	101	95	88	59
94	80	83	95	101	94	88	58
93	79	82	95	100	94	87	58
92	79	82	94	99	94	86	57
91	78	81	93	98	93	86	57
90	78	81	92	98	93	85	56
89	77	80	92	97	93	84	56
88	76	79	91	96	92	84	55
87	75	79	90	95	92	83	55
86	74	78	89	94	91	82	54
85	74	78	88	93	91	82	54
84	73	77	87	92	91	81	53
83	72	77	86	92	90	80	53
82	71	76	86	91	90	80	52
81	70	75	85	90	90	79	52
80	70	75	84	89	89	78	51
79	69	74	83	89	89	77	51
78	68	73	82	87	88	76	50
77	67	73	81	86	88	75	50
76	66	72	80	85	87	74	49
75	65	72	80	84	87	74	49
74	64	71	79	83	87	73	48
73	64	70	78	82	86	72	47
72	63	70	77	81	86	71	47
71	62	69	76	80	85	70	46
70	61	68	75	79	85	69	46
69	60	68	75	78	84	68	45
68	60	67	74	77	84	67	44
67	59	66	73	76	83	66	44
66	58	66	72	75	83	65	43
65	57	65	71	74	82	64	43
64	57	64	70	73	82	63	42
63	56	64	69	72	81	62	41
62	55	63	68	70	81	61	41
61	54	62	68	69	80	60	40
60	53	61	67	68	79	59	40
59	53	60	66	67	78	57	39
58	52	59	65	66	78	56	38
57	51	59	64	65	77	55	38
56	50	58	63	63	76	54	37
55	49	57	62	62	75	53	36
54	49	56	62	61	74	52	36
53	48	55	61	60	73	51	35
52	47	54	60	58	72	49	35
51	46	53	59	57	72	48	34
50	45	52	58	56	71	47	33
49	45	52	57	54	70	46	33
48	44	51	56	53	69	45	32
47	43	50	55	52	68	44	32
46	42	48	54	50	67	43	31
45	41	47	53	49	65	42	31
44	41	46	52	48	64	41	30
43	40	45	51	46	63	40	29
42	39	44	50	45	62	39	29
41	38	43	49	44	60	38	28
40	37	42	47	42	59	37	28
39	37	41	46	41	58	36	27
38	36	40	45	40	56	35	26
37	35	39	44	39	55	34	26
36	34	38	43	38	54	33	25
35	33	37	42	36	52	32	24
34	32	36	40	35	50	31	24
33	32	34	39	34	48	30	23
32	31	33	38	33	47	29	22
31	30	32	36	32	45	28	22
30	29	31	35	31	43	28	21
29	28	30	34	30	41	27	20
28	27	28	32	30	39	26	20
27	26	27	31	29	36	25	19
26	24	26	29	28	34	24	18
25	23	25	28	27	32	23	17
24	22	24	26	26	30	22	17
23	21	23	26	25	28	21	16
22	20	22	23	24	27	21	15
21	19	21	22	23	25	20	14
20	18	20	20	22	24	19	14
19	18	19	19	21	23	18	13
18	17	18	18	20	21	17	12
17	16	17	17	20	20	16	11
16	15	16	16	19	19	15	11
15	14	16	15	18	18	14	10
14	14	15	14	17	17	14	10
13	13	14	14	16	16	13	9
12	13	14	13	15	16	13	9
11	12	13	13	14	15	12	8
10	12	12	12	13	14	11	8
9	11	11	12	12	13	10	7
8	10	10	11	11	12	9	7
7	9	8	10	9	11	8	6
6	8	7	10	8	10	7	5
5	7	6	9	7	10	6	5
4	7	5	9	6	9	5	4
3	6	4	8	5	8	4	4
2	5	3	7	3	7	3	3
1	4	2	6	2	6	2	2
Number of items 98	82	85	102	106	95	70	60

Table 7—Grade 4: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SRA-ACH 1971 Blue Level Form E Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Inter. I Form W Word Meaning	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
42	40	40	46	38	50	37	30
41	38	38	42	37	50	35	29
40	37	37	40	36	49	34	28
39	36	36	39	35	48	32	27
38	34	35	38	34	48	31	26
37	33	34	37	33	47	30	25
36	32	34	36	32	47	29	25
35	31	33	35	31	46	28	24
34	30	32	34	30	46	27	24
33	29	31	33	29	45	26	23
32	29	31	33	28	45	25	23
31	28	30	32	27	44	25	22
30	27	29	32	27	44	24	22
29	26	29	31	26	43	23	21
28	25	28	30	25	43	23	21
27	25	27	30	24	42	22	20
26	24	27	29	23	[illegible]	21	20
25	23	26	29	23	[illegible]	21	20
24	23	25	28	22	40	20	19
23	22	25	28	21	40	19	19
22	21	24	27	20	39	19	18
21	21	23	26	19	38	18	18
20	20	23	26	19	37	17	17
19	19	22	25	18	36	17	17
18	18	21	24	17	35	16	16
17	18	20	23	16	34	15	16
16	17	19	22	15	32	14	15
15	16	18	21	14	31	14	14
14	15	17	20	13	28	13	1
13	14	16	19	12	26	12	13
12	13	14	18	11	23	11	12
11	11	13	16	10	20	10	10
10	10	12	14	9	17	9	9
9	9	10	13	8	15	8	8
8	8	9	11	7	13	7	7
7	6	8	10	6	11	5	6
6	5	6	8	5	9	4	5
5	4	5	6	4	9	3	4
4	4	4	5	4	6	3	3
3	3	3	4	3	5	2	3
2	2	3	3	2	3	1	?
1	1	2	2	1	2	1	1
Number of items 42	40	40	50	38	50	38	30

READING COMPREHENSION

SRA-ACH 1971 Blue Level Form E Reading	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 10 Form 5 Reading Comprehension	MAT 1970 Elementary Form F Reading	SAT 1964 Inter. I Form W Paragraph Meaning	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
48	42	45	52	66	45	59	30
47	42	45	52	65	45	58	30
46	41	44	51	64	45	57	29
45	40	43	50	62	44	56	29
44	35	43	50	61	44	54	28
43	38	42	49	60	43	53	28
42	37	41	48	58	43	52	27
41	36	41	47	57	42	50	26
40	35	40	46	56	42	49	26
39	35	39	45	55	41	48	25
38	34	39	44	53	41	47	24
37	33	38	44	52	40	46	24
36	32	37	43	51	40	45	23
35	31	37	42	50	39	43	22
34	31	36	41	48	38	42	22
33	30	36	40	47	38	41	21
32	29	35	39	46	38	40	20
31	28	34	38	45	37	39	20
30	28	33	37	43	36	38	19
29	27	32	36	42	36	37	18
28	26	32	35	41	35	36	18
27	26	31	34	40	34	35	17
26	25	30	33	38	33	34	16
25	24	29	32	37	32	33	16
24	24	28	31	35	31	31	15
23	23	27	30	34	30	30	14
22	22	26	29	32	29	29	14
21	21	25	27	30	28	28	13
20	20	23	26	28	26	26	12
19	19	22	24	26	25	25	12
18	18	20	22	24	23	23	11
17	17	19	20	23	22	22	10
16	16	17	19	21	20	20	10
15	15	16	17	20	18	19	9
14	14	15	15	19	17	18	8
13	13	13	14	17	15	16	8
12	12	12	12	16	14	15	7
11	11	11	11	15	12	14	6
10	10	10	9	14	11	13	5
9	9	9	8	13	10	11	5
8	8	8	7	12	8	10	4
7	7	7	6	10	7	9	3
6	6	6	5	9	6	7	3
5	5	5	4	8	5	6	2
4	4	4	3	6	4	4	2
3	3	3	3	4	3	3	1
2	2	2	2	3	2	2	1
1	1	1	1	1	1	1	0
Number of items 48	42	46	52	66	46	60	30

Table 7–Grade 4: Raw scores for the SRA Achievement Series (SRA-ACH), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SRA-ACH 1971 Blue Level Form E	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. I Form W	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
90	82	85	98	104	95	98	60
89	81	84	97	103	95	96	59
88	80	83	96	101	94	95	59
87	79	82	95	100	94	93	58
86	78	81	93	99	93	92	57
85	78	81	92	98	93	90	56
84	77	80	91	96	92	89	56
83	75	79	90	95	92	87	55
82	74	78	88	94	91	86	54
81	73	77	87	92	91	84	53
80	72	76	86	91	90	83	53
79	71	76	85	90	90	81	52
78	70	75	84	89	89	80	51
77	69	74	83	88	89	79	51
76	68	73	82	87	88	78	50
75	67	73	81	86	88	77	50
74	66	72	80	84	87	76	49
73	65	71	79	83	87	74	48
72	64	70	78	82	86	73	48
71	63	70	77	81	86	72	47
70	62	69	76	80	85	71	46
69	61	68	75	79	85	70	46
68	60	68	75	78	84	69	45
67	60	67	74	77	84	68	44
66	59	66	73	76	83	67	44
65	58	66	72	75	83	66	43
64	57	65	71	74	82	65	43
63	57	64	70	73	82	64	42
62	56	64	69	72	81	63	41
61	55	63	69	71	81	62	41
60	54	62	68	70	80	61	40
59	54	62	67	69	79	60	40
58	53	61	66	68	79	60	39
57	52	60	66	67	78	59	39
56	52	59	65	66	77	58	38
55	51	59	64	64	77	57	38
54	50	58	63	63	76	56	37
53	49	57	63	62	75	55	37
52	49	56	62	61	75	54	36
51	48	55	61	60	74	53	36
50	47	55	60	59	73	53	36
49	47	54	60	58	72	52	34
48	46	53	59	56	71	51	34
47	45	52	58	55	70	50	33
46	44	51	57	54	70	49	33
45	44	50	56	53	69	48	32
44	43	49	55	52	68	47	32
43	42	48	54	50	66	46	31
42	42	48	53	49	65	45	31
41	41	47	52	48	64	44	30
40	40	46	51	46	63	43	29
39	39	45	50	45	62	42	29
38	38	44	49	44	61	41	28
37	37	43	48	42	59	40	28
36	37	41	46	41	58	39	27
35	36	40	45	40	56	38	26
34	35	39	44	39	55	37	26
33	34	38	43	37	54	36	25
32	33	37	41	36	53	35	24
31	32	35	40	35	51	34	24
30	31	34	39	34	48	33	23
29	30	33	37	33	46	32	22
28	29	32	36	32	44	31	21
27	28	30	34	31	41	29	21
26	27	29	33	30	39	28	20
25	26	27	31	29	37	27	19
24	24	26	29	28	34	26	18
23	23	25	27	27	32	25	17
22	22	23	26	26	30	24	16
21	21	22	24	25	28	23	15
20	20	21	22	24	26	21	15
19	19	20	21	22	24	20	14
18	18	19	19	21	22	19	13
17	17	18	18	20	21	18	12
16	16	17	17	20	20	17	11
15	15	16	16	19	19	16	11
14	14	15	15	18	17	14	10
13	13	14	14	16	16	13	9
12	13	13	13	15	15	11	9
11	12	12	12	13	14	10	8
10	11	11	12	12	13	9	7
9	10	10	11	11	12	8	7
8	9	9	11	10	11	7	6
7	9	8	10	9	11	6	6
6	8	7	9	7	10	5	5
5	7	5	9	6	9	4	4
4	6	4	8	5	8	3	4
3	5	3	8	4	7	2	3
2	4	2	7	3	6	1	3
1	4	2	7	1	5	1	2
Number of items							
90	82	86	102	108	95	98	60

Table 8–Grade 4: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

STEP II 1969 Level 4 Form A Part 1	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Inter 1 Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary
Raw score	Equivalent raw score						
30	40	40	47	38	50	38	42
29	39	39	44	37	50	36	41
28	38	38	41	36	49	34	40
27	36	37	39	35	49	33	39
26	34	36	38	34	48	31	38
25	33	34	36	32	47	29	36
24	31	33	35	31	46	28	35
23	29	31	33	29	45	26	33
22	27	30	32	27	44	24	31
21	26	28	31	25	43	23	29
20	24	27	29	24	42	21	26
19	23	25	28	22	40	20	24
18	21	24	27	20	39	19	22
17	20	22	25	18	37	17	20
16	18	21	24	17	35	16	18
15	17	19	22	15	32	14	16
14	15	18	21	14	30	13	15
13	14	16	20	13	27	12	13
12	13	15	18	12	24	11	12
11	12	14	17	11	21	10	11
10	11	12	16	10	19	9	11
9	10	11	14	9	17	8	10
8	9	10	12	8	15	7	9
7	8	9	11	7	13	6	8
6	7	8	10	6	11	5	7
5	6	6	8	5	9	4	6
4	4	5	6	4	8	3	5
3	3	4	5	3	6	2	4
2	2	3	3	2	4	1	2
1	1	1	1	0	1	0	0
Number of items 30	40	40	50	38	50	32	42

READING COMPREHENSION

STEP II 1969 Level 4 Form A Part 2	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 10 Form 5 Reading Comprehension	MAT 1970 Elementary Form F Reading	SAT 1964 Inter 1 Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading
Raw score	Equivalent raw score						
30	42	45	52	66	45	58	48
29	41	44	51	63	45	56	46
28	39	42	49	61	44	54	44
27	38	41	48	59	43	52	42
26	36	40	47	58	42	50	41
25	35	39	45	55	41	48	39
24	33	38	44	53	41	46	37
23	32	37	43	51	40	44	36
22	31	36	41	49	39	43	35
21	30	35	40	47	38	41	33
20	29	34	39	46	37	40	32
19	28	33	37	44	36	38	30
18	27	32	36	42	35	36	29
17	26	31	34	40	34	35	27
16	25	30	33	37	33	33	26
15	24	28	31	35	31	31	24
14	22	26	29	33	30	30	23
13	21	25	27	30	28	28	21
12	20	23	25	28	26	26	20
11	19	20	22	25	23	23	18
10	17	19	20	22	21	21	17
9	15	16	17	20	18	19	15
8	14	14	15	18	16	17	14
7	12	13	13	17	14	15	12
6	11	11	11	15	12	14	11
5	9	10	9	13	10	12	10
4	8	8	7	12	9	10	8
3	6	7	5	10	7	8	6
2	5	5	3	8	5	5	4
1	3	3	2	4	3	3	3
Number of items 38	42	46	52	68	46	60	48

Table 8—Grade 4: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

STEP II 1969 Level 4 Form A	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. I Form W	SRA ACH 1971 Blue Level Form E
Raw score	Equivalent raw score						
60	92	85	98	104	95	98	90
59	80	83	96	102	95	98	89
58	79	82	95	100	94	97	87
57	78	81	93	99	93	91	86
56	77	80	92	97	93	89	85
55	76	79	90	95	92	88	83
54	74	78	89	94	91	86	82
53	72	77	87	92	90	83	81
52	71	76	86	90	90	81	79
51	69	74	83	88	89	80	77
50	68	73	82	87	88	78	76
49	66	72	80	85	87	76	74
48	65	71	79	83	87	74	73
47	63	70	77	81	86	72	71
46	62	69	76	80	85	71	70
45	61	68	75	78	84	69	68
44	59	67	73	76	84	68	67
43	58	65	72	74	83	66	66
42	57	64	70	73	82	64	63
41	55	63	69	71	81	63	61
40	54	62	67	69	80	61	60
39	53	61	66	67	79	59	58
38	52	59	65	66	77	58	56
37	50	58	63	64	76	56	54
36	49	56	62	61	75	54	52
35	48	55	61	59	73	53	50
34	46	54	59	57	72	51	49
33	45	52	58	55	70	50	47
32	44	50	56	53	69	48	45
31	42	49	54	50	67	46	43
30	41	47	52	48	65	44	41
29	39	45	50	46	62	43	39
28	38	43	49	44	60	41	38
27	37	42	47	41	58	39	36
26	35	40	45	39	56	38	35

STEP II 1969 Level 4 Form A	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. I Form W	SRA ACH 1971 Blue Level Form E
Raw score	Equivalent raw score						
25	34	39	43	36	54	36	33
24	33	36	41	36	51	35	32
23	32	34	39	34	48	33	30
22	30	33	37	33	46	32	29
21	29	31	35	31	43	30	26
20	27	29	33	30	40	29	25
19	26	28	31	29	37	27	25
18	25	26	29	28	34	26	24
17	23	25	27	27	32	25	23
16	22	23	25	25	29	23	22
15	20	22	23	24	27	22	21
14	19	20	21	23	25	21	19
13	18	19	20	22	23	19	18
12	17	18	18	20	21	18	17
11	16	17	17	19	20	17	16
10	14	16	15	18	18	15	14
9	13	14	14	16	16	13	13
8	12	12	12	14	14	11	11
7	11	11	11	12	13	9	10
6	9	9	10	10	11	7	8
5	8	7	9	8	10	6	6
4	6	5	8	6	8	4	4
3	5	3	7	3	7	2	3
2	4	1	6	2	5	1	1
1	2	0	5	1	4	0	0
Number of items							
60	82	86	102	106	95	98	90

Table 9—Grade 5. Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form G Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
40	40	46	42	49	43	42	30
39	39	44	40	47	39	42	29
38	38	42	39	45	37	41	28
37	37	40	37	43	34	40	27
36	36	39	36	41	32	39	27
35	35	38	35	40	30	38	26
34	35	37	34	38	28	37	25
33	34	36	33	37	26	36	25
32	33	35	32	36	25	35	24
31	32	34	30	35	24	34	24
30	31	33	29	33	22	33	23
29	31	32	27	32	21	32	22
28	30	32	26	31	20	31	22
27	29	31	25	30	19	29	21
26	28	30	23	28	18	28	21
25	27	29	22	27	17	26	20
24	26	29	20	26	16	25	19
23	25	28	19	25	16	24	19
22	24	27	18	24	15	22	18
21	23	26	17	22	14	21	17
20	22	25	16	21	14	19	17
19	21	24	15	20	13	18	16
18	20	23	14	19	12	17	15
17	19	22	13	18	12	16	15
16	18	21	13	17	11	15	14
15	17	20	12	16	10	14	13
14	16	19	11	15	10	13	12
13	14	18	11	14	9	12	11
12	13	16	10	13	9	11	10
11	12	15	9	12	8	10	10
10	11	14	8	11	7	9	9
9	10	12	7	10	6	8	8
8	9	11	7	9	5	8	7
7	8	9	6	8	5	7	6
6	7	8	5	7	4	6	5
5	6	6	4	6	3	5	4
4	4	5	3	5	2	4	3
3	3	4	2	4	1	3	2
2	2	2	1	3	1	2	1
1	1	1	0	2	0	1	1
Number of items							
40	40	80	43	80	48	42	30

READING COMPREHENSION

CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form G Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	MAT 1970 Inter Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
42	45	52	72	45	52	48	30
41	44	51	68	43	50	46	29
40	43	50	66	42	56	45	28
39	42	49	64	41	53	44	28
38	41	48	61	40	51	43	27
37	41	47	59	39	49	42	26
36	40	46	57	37	48	41	25
35	39	45	55	36	44	40	25
34	38	44	53	35	42	39	24
33	37	43	51	34	40	37	23
32	37	42	49	33	38	36	22
31	36	41	48	31	36	35	21
30	35	40	44	30	34	33	20
29	34	39	42	28	32	32	19
28	33	38	40	27	31	30	18
27	32	36	38	26	29	29	17
26	30	35	35	25	27	27	16
25	29	33	33	23	26	25	15
24	28	32	32	22	25	24	14
23	26	30	30	21	23	23	14
22	25	28	28	20	22	21	13
21	23	26	26	18	21	20	12
20	22	24	25	17	20	19	11
19	20	23	24	16	19	18	11
18	19	21	22	15	18	17	10
17	17	19	21	14	17	16	10
16	16	18	20	14	16	15	9
15	15	17	19	13	15	14	8
14	14	16	18	12	15	14	8
13	13	14	17	11	14	13	7
12	12	12	16	10	13	12	7
11	11	11	15	10	12	11	6
10	10	10	14	9	11	10	6
9	9	9	12	8	10	9	5
8	9	8	11	7	8	8	4
7	8	7	9	6	7	7	4
6	7	6	8	5	6	6	3
5	6	5	6	4	5	5	3
4	4	4	5	3	4	5	2
3	3	3	4	2	4	4	1
2	2	2	3	2	3	4	1
1	1	1	1	1	2	3	0
Number of items							
42	45	82	74	45	84	48	30

Table 9—Grade 5: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form G	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
82	85	100	114	94	109	90	60
81	83	98	111	92	104	89	59
80	82	96	109	91	100	88	58
79	81	94	107	89	97	87	57
78	80	93	105	88	94	86	56
77	80	91	103	86	91	85	56
76	79	90	100	85	89	84	55
75	78	89	98	83	86	83	54
74	77	88	97	82	84	82	53
73	77	86	95	80	81	81	53
72	76	85	93	79	79	80	52
71	75	84	92	78	77	79	51
70	74	83	[illegible]	76	75	78	50
69	73	82	[illegible]	75	72	77	50
68	73	81	[illegible]	74	70	76	49
67	72	80	85	72	68	75	48
66	71	79	83	71	66	73	47
65	70	78	81	70	64	72	47
64	70	77	79	68	62	71	46
63	69	76	78	67	61	70	45
62	68	75	76	66	59	69	44
61	67	74	74	65	58	68	44
60	66	73	73	63	56	66	43
59	65	72	[illegible]	62	55	65	42
58	64	71	70	61	53	64	41
57	63	70	68	59	52	62	41
56	62	69	66	58	50	61	40
55	61	68	64	57	49	59	39
54	60	67	62	55	48	58	38
53	59	66	60	54	47	56	37
52	58	65	59	53	45	55	37
51	57	64	57	52	44	54	36
50	56	62	55	51	43	52	35
49	55	61	54	49	42	51	35
48	54	60	52	48	41	49	34
47	53	59	50	47	40	48	33
46	52	57	49	46	39	47	32
45	50	56	47	45	38	45	32
44	49	54	46	43	37	44	31
43	48	53	44	42	36	42	30
42	47	52	43	41	35	41	29
41	46	51	42	40	35	40	29
40	44	49	[illegible]	39	34	38	28
39	43	48	[illegible]	38	33	37	27
38	42	47	39	37	32	36	27
37	41	46	38	35	32	35	26
36	39	44	36	34	31	34	25
35	38	43	35	33	30	33	25
34	36	42	35	32	29	31	24
33	35	41	34	31	29	30	23
32	34	40	33	31	28	30	22
31	33	38	32	30	27	29	22
30	32	37	31	29	27	28	21
29	31	36	31	28	26	27	20
28	29	35	30	27	25	26	20
27	28	33	29	26	25	25	19
26	27	32	28	26	24	25	18
25	26	30	27	25	23	24	18
24	25	28	26	24	22	23	17
23	24	27	25	23	21	22	16
22	23	25	24	22	20	21	16
21	22	24	23	21	19	20	15
20	21	22	22	20	18	20	14
19	20	21	21	19	18	19	14
18	19	20	20	18	16	18	13
17	17	18	18	17	15	17	12
16	16	16	16	16	14	16	12
15	15	14	14	14	12	14	11
14	14	13	13	13	11	13	10
13	12	12	12	12	10	12	9
12	11	11	11	11	9	11	8
11	10	10	10	9	8	10	7
10	8	9	8	8	[illegible]	9	7
9	7	8	7	7	6	8	6
8	6	7	6	6	5	7	5
7	5	6	5	5	4	6	4
6	3	5	[illegible]	4	3	5	3
5	2	5	3	3	3	4	2
4	1	4	1	2	2	2	2
3	0	3	0	2	2	1	1
2	0	2	0	2	1	0	1
1	0	1	0	1	1	0	1
Number of items							
82	85	102	117	95	112	90	60

Table 3C—Grade 5: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CTBS 1968 Level 3 Form Q Vocabulary	CAT 1970 Level 3 Form A Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA-ACH 1971 Blue Level Form E Vocabulary	STEP II 1968 Level 4 Form A Part 1
Raw score	Equivalent raw score						
40	40	47	42	48	44	42	30
39	39	44	41	47	42	42	29
38	38	42	39	45	37	41	28
37	37	40	38	43	35	40	27
36	36	38	36	41	32	38	27
35	35	37	35	39	28	38	26
34	33	36	33	38	27	37	25
33	32	35	32	36	25	36	24
32	31	34	30	34	24	34	24
31	30	33	28	33	22	33	23
30	29	32	26	31	20	31	22
29	27	31	25	30	19	29	21
28	26	30	23	28	18	28	21
27	25	29	22	27	17	26	20
26	24	29	20	26	16	25	19
25	23	28	19	25	16	23	19
24	22	27	18	23	15	22	18
23	21	26	17	22	14	20	17
22	20	25	16	21	13	19	17
21	19	24	[illegible]	20	13	18	16
20	18	23	14	19	12	17	15
19	17	22	13	18	12	16	15
18	16	21	13	17	11	15	14
17	15	20	12	17	11	14	13
16	14	19	12	16	[illegible]	13	13
15	14	18	11	15	[illegible]	12	12
14	13	17	10	14	[illegible]	12	11
13	12	16	10	13	8	11	10
12	11	15	9	12	8	10	9
11	10	14	8	11	7	9	8
10	9	13	8	11	6	9	8
9	8	11	7	10	6	8	7
8	7	10	6	9	5	7	6
7	6	8	5	7	4	6	6
6	5	7	4	6	3	6	5
5	5	6	4	5	3	5	4
4	4	5	3	4	2	4	3
3	3	3	2	4	1	3	2
2	2	2	1	3	1	2	1
1	1	1	0	2	0	1	0
Number of items							
40	40	80	43	80	48	42	30

READING COMPREHENSION

CTBS 1968 Level 2 Form Q Comprehension	CAT 1970 Level 3 Form A Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA-ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
45	42	52	72	45	63	48	30
44	41	52	69	44	60	47	29
43	40	50	66	42	56	45	29
42	39	49	64	41	53	44	28
41	38	48	61	39	50	43	27
40	38	47	59	38	47	41	26
39	36	46	56	36	44	40	25
38	34	44	53	35	41	38	24
37	33	43	50	33	39	37	22
36	31	42	47	32	38	35	21
35	30	40	44	30	34	33	20
34	28	39	42	28	33	32	19
33	28	38	40	27	31	30	18
32	27	37	38	26	30	29	18
31	27	36	37	25	28	28	17
30	26	35	35	24	27	26	16
29	25	33	33	23	26	25	15
28	24	32	32	22	25	24	15
27	24	31	31	21	24	23	14
26	23	30	30	21	23	22	13
25	22	29	29	20	22	22	13
24	22	27	27	19	22	21	12
23	21	26	26	18	21	20	12
22	20	25	26	18	20	19	11
21	20	24	24	17	20	19	11
20	19	23	23	16	19	18	11
19	18	21	23	16	18	17	10
18	18	20	22	16	18	17	10
17	17	19	21	14	17	16	9
16	16	18	20	13	16	16	9
15	15	16	19	13	15	14	9
14	14	15	18	12	15	13	8
13	13	14	17	11	14	13	7
12	12	12	16	10	13	12	7
11	11	11	14	9	12	11	6
10	10	10	13	9	10	10	5
9	9	8	12	8	9	9	5
8	7	7	10	7	8	8	4
7	6	6	8	6	7	7	4
6	5	5	7	5	6	6	3
5	5	4	6	4	5	5	2
4	4	4	5	3	4	5	2
3	3	3	3	2	3	4	1
2	2	2	2	1	3	3	1
1	1	1	1	0	2	3	0
Number of items							
45	42	52	74	45	64	48	30

Table 10—Grade 5: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CTBS 1968 Level J Form Q	CAT 1970 Level J Form A	GMT 1964 Survey Q Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
65	82	100	114	94	109	90	60
64	82	99	112	93	106	89	59
63	81	97	110	92	103	88	59
62	80	95	108	90	99	87	58
61	79	94	106	89	96	86	57
60	78	92	104	87	93	85	56
59	76	91	101	85	90	84	55
58	75	89	98	83	86	83	54
57	74	87	96	82	83	82	53
56	72	86	94	80	80	80	52
55	71	84	92	78	77	79	51
54	70	83	90	76	75	78	50
53	69	82	88	75	72	77	49
52	67	80	86	73	69	75	48
51	66	79	83	71	66	74	47
50	65	78	81	69	64	72	46
49	63	76	78	68	62	71	45
48	62	75	76	66	59	69	44
47	61	74	74	64	57	68	44
46	60	73	72	63	56	66	43
45	59	72	71	62	54	65	42
44	58	71	69	60	53	63	41
43	57	70	67	59	51	62	40
42	56	69	65	58	50	60	40
41	55	68	63	56	49	59	39
40	54	67	62	55	48	57	38
39	53	66	60	54	46	56	37
38	52	65	58	53	45	55	37
37	51	63	57	52	44	53	36
36	50	62	55	50	43	52	35
35	49	61	53	49	42	51	35
34	48	60	52	48	41	50	34
33	47	59	51	47	40	48	33
32	46	58	49	46	39	47	33
31	46	57	48	45	38	46	32
30	45	55	47	44	38	45	31
29	44	54	45	43	37	44	31
28	43	53	44	42	36	42	30
27	42	52	43	41	36	41	29
26	41	51	42	40	35	40	29
25	41	50	41	39	34	39	28
24	40	49	40	38	34	38	28
23	39	48	40	38	33	37	27
22	38	47	39	37	33	36	27
21	37	46	38	36	32	35	26
20	37	45	37	35	31	34	26
19	36	44	37	34	31	34	25
18	35	43	36	34	30	33	25
17	34	43	35	33	30	32	24
16	34	42	34	32	29	31	24
15	33	41	34	31	29	30	23
14	32	40	33	31	28	30	22
13	31	39	32	30	28	29	22
12	30	38	32	29	27	28	21
11	29	36	31	28	26	27	21
10	29	35	30	28	26	27	20
9	28	34	30	27	25	26	19
8	27	32	29	26	24	25	19
7	26	31	28	25	23	24	18
6	25	30	27	25	23	24	18
5	24	28	26	24	22	23	17
4	23	27	25	23	21	22	16
3	22	25	25	22	20	21	16
2	21	24	24	22	20	21	15
1	20	23	23	21	19	20	14
0	19	21	21	20	18	19	14
19	18	20	20	19	17	18	13
18	18	19	19	18	16	17	13
17	17	18	17	17	15	16	12
16	16	16	16	15	13	15	11
15	15	15	14	14	12	14	11
14	14	14	13	13	11	14	10
13	14	13	12	13	11	13	10
12	13	12	11	12	10	12	9
11	12	11	11	11	9	11	8
10	11	11	10	10	8	10	8
9	11	10	9	9	8	9	7
8	10	9	8	8	7	9	6
7	9	8	7	7	6	8	6
6	8	8	6	6	5	7	5
5	7	7	5	5	4	6	5
4	7	6	5	4	4	5	4
3	6	5	4	3	3	5	3
2	5	4	3	3	2	4	3
1	4	3	2	3	2	3	2
Number of items							
65	82	102	117	95	112	90	60

Table 11—Grade 5: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

GMT 1964 Survey D Form 1M Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA-ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
50	40	40	43	50	48	42	30
49	40	40	43	50	48	42	30
48	40	40	43	50	47	42	30
47	40	40	42	49	45	42	30
46	40	40	42	46	43	42	30
45	40	39	41	48	41	42	30
44	39	39	40	47	40	42	29
43	39	38	40	46	38	41	29
42	38	38	39	45	37	41	28
41	38	37	38	44	36	40	28
40	37	37	37	43	34	40	27
39	36	36	36	42	32	39	27
38	35	36	35	40	31	39	26
37	34	35	34	39	29	38	26
36	33	34	33	38	27	37	25
35	32	33	32	36	25	35	24
34	31	32	30	35	24	34	24
33	30	31	28	33	22	33	23
32	29	30	27	31	21	31	22
31	27	29	25	30	19	30	21
30	26	28	23	28	18	28	21
29	25	27	21	27	17	26	20
28	23	25	20	25	16	24	19
27	22	24	18	24	15	22	18
26	21	23	17	22	14	21	17
25	20	22	16	21	14	19	17
24	19	21	15	20	13	18	16
23	18	20	14	19	12	17	15
22	17	19	13	18	12	16	14
21	16	18	13	17	11	15	14
20	15	17	12	16	10	14	13
19	14	16	11	15	10	13	12
18	13	15	11	15	9	12	12
17	13	14	10	14	9	11	11
16	12	13	10	13	8	11	10
15	11	12	9	12	8	10	9
14	10	11	8	12	7	9	9
13	10	10	8	11	7	9	8
12	9	10	7	10	6	8	8
11	8	9	7	10	6	8	7
10	8	8	6	9	5	7	7
9	7	8	6	8	5	7	6
8	6	7	5	7	4	6	5
7	6	6	4	6	3	6	5
6	5	5	4	6	3	5	4
5	4	4	3	5	2	4	3
4	3	4	2	4	2	3	3
3	3	3	2	3	1	3	2
2	2	2	1	3	1	2	1
1	1	1	0	2	0	1	0
Number of items							
50	40	40	43	50	48	42	30

READING COMPREHENSION

GMT 1964 Survey D Form 1M Comprehension	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	IMKT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA-ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
52	42	45	72	45	62	48	30
51	41	44	68	43	58	46	29
50	40	43	66	42	55	45	28
49	39	42	63	40	53	44	27
48	38	41	61	39	50	43	27
47	37	40	59	38	48	42	26
46	36	39	56	37	45	40	25
45	35	39	54	36	43	39	24
44	34	38	52	34	41	38	23
43	33	37	50	33	39	36	22
42	32	36	48	32	37	35	22
41	31	36	46	31	35	34	21
40	30	35	44	30	34	33	20
39	29	34	42	28	32	32	19
38	28	33	40	27	31	30	18
37	28	32	39	26	30	29	18
36	27	31	37	25	29	28	17
35	26	30	36	25	28	27	16
34	26	30	34	24	27	26	16
33	25	29	33	23	26	25	15
32	24	28	32	22	25	24	15
31	24	27	31	22	24	24	14
30	23	27	30	21	23	23	14
29	23	26	29	20	23	22	13
28	22	25	28	20	22	22	13
27	22	24	27	19	22	21	12
26	21	23	26	18	21	20	12
25	20	22	25	18	20	19	12
24	20	21	24	17	20	19	11
23	19	20	24	17	19	18	11
22	19	20	23	16	19	18	11
21	18	19	22	15	18	17	10
20	17	18	22	15	18	16	10
19	17	17	21	14	17	16	9
18	16	16	20	14	16	15	9
17	15	16	19	13	16	15	9
16	15	15	19	12	15	14	8
15	14	14	18	12	15	13	8
14	13	13	17	11	14	13	7
13	13	13	16	11	13	12	7
12	12	12	16	10	13	12	7
11	11	11	15	10	12	11	6
10	10	10	14	9	11	10	6
9	9	10	13	8	10	9	5
8	8	9	11	7	9	8	5
7	7	8	10	6	8	7	4
6	6	7	8	5	6	7	4
5	5	6	7	4	5	6	3
4	4	5	5	3	4	5	2
3	3	3	4	2	3	4	1
2	2	2	2	1	2	3	1
1	1	1	1	0	1	2	0
Number of items							
52	42	45	74	45	64	48	30

Table 11—Grade 5: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

GMT 1964 Survey D Form 1M	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	ITBS 1971 Level 11 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
102	82	85	116	95	112	90	60
101	82	85	115	95	111	90	60
100	82	85	114	94	109	90	60
99	82	84	113	93	107	89	60
98	81	84	111	92	105	89	59
97	81	83	110	92	102	88	59
96	80	82	109	91	100	88	58
95	80	82	108	90	98	87	58
94	79	81	106	89	96	87	57
93	78	81	105	88	94	86	56
92	78	80	104	87	92	85	56
91	77	79	102	86	90	84	55
90	76	79	100	85	88	84	55
89	75	78	99	83	86	83	54
88	74	78	97	82	84	82	54
87	74	77	96	81	83	81	53
86	73	76	95	80	81	81	52
85	72	76	93	79	79	80	52
84	71	75	92	78	77	79	51
83	70	74	90	76	75	78	50
82	69	73	89	75	73	77	50
81	68	73	87	74	71	76	49
80	67	72	85	73	69	75	48
79	66	71	84	71	67	74	48
78	65	70	82	70	65	72	47
77	64	69	80	68	63	71	46
76	63	69	78	67	61	70	45
75	62	68	76	66	59	69	44
74	61	67	74	64	57	67	44
73	60	66	73	63	56	66	43
72	59	65	71	62	54	65	42
71	58	64	69	61	53	64	41
70	57	63	68	59	52	62	41
69	56	62	66	58	50	61	40
68	55	61	64	57	49	59	39
67	54	60	62	55	48	58	38
66	53	59	61	54	47	57	38
65	52	58	59	53	46	55	37
64	51	58	58	52	45	54	36
63	51	57	56	51	44	53	36
62	50	56	55	50	43	52	35
61	49	55	53	49	42	51	34
60	48	54	52	48	41	49	34
59	47	53	51	47	40	48	33
58	47	52	49	46	40	47	33
57	46	51	48	46	39	46	32
56	45	51	47	45	38	45	32
55	44	50	46	44	38	44	31
54	44	49	45	43	37	43	31
53	43	48	44	42	36	42	30
52	42	47	43	41	36	41	30
51	41	46	42	40	35	40	29

GMT 1964 Survey D Form 1M	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	ITBS 1971 Level 11 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
50	41	45	41	39	34	39	28
49	40	44	40	38	34	38	28
48	39	43	39	37	33	37	27
47	38	42	39	37	32	36	27
46	37	41	38	36	32	35	26
45	37	40	37	35	31	34	26
44	36	39	36	34	31	33	25
43	35	38	35	33	30	32	24
42	34	36	35	32	29	32	24
41	33	35	34	32	29	31	23
40	32	34	33	31	28	30	23
39	32	33	33	30	28	29	22
38	31	32	32	30	27	29	22
37	30	32	31	29	27	28	21
36	29	31	31	28	26	27	21
35	28	30	30	28	26	27	20
34	28	29	30	27	25	26	20
33	27	28	29	26	25	25	19
32	26	28	29	26	24	25	19
31	26	27	28	25	24	24	18
30	25	26	27	25	23	24	18
29	25	26	27	24	22	23	17
28	24	25	26	24	22	23	17
27	23	24	26	23	21	22	16
26	23	23	25	23	21	22	16
25	22	23	24	22	20	21	15
24	21	22	24	21	20	21	15
23	21	21	23	21	19	20	15
22	20	21	22	20	18	19	14
21	19	20	21	19	18	19	14
20	18	19	20	19	17	18	13
19	18	18	19	18	16	17	13
18	17	17	18	17	15	16	12
17	16	16	17	16	14	16	12
16	16	16	16	15	13	15	11
15	15	15	15	15	13	15	11
14	15	14	14	14	12	14	10
13	14	13	13	13	11	13	10
12	13	12	11	12	10	12	9
11	12	11	10	11	9	11	8
10	11	9	9	9	8	10	7
9	10	8	8	8	7	8	7
8	9	7	7	7	6	7	6
7	8	5	5	6	5	6	5
6	7	4	4	4	4	5	4
5	6	3	3	3	3	4	3
4	4	2	2	2	2	3	2
3	3	1	1	1	1	2	1
2	2	1	1	1	0	1	1
1	1	0	1	0	0	1	0
Number of items							
102	82	85	117	95	112	90	60

Table 12–Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

ITBS 1971 Level 11 Form 5 Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
43	40	40	48	50	47	42	30
42	40	40	47	49	44	42	30
41	40	39	45	48	41	42	30
40	39	39	44	47	39	41	29
39	38	38	42	45	37	41	28
38	38	37	41	44	35	40	28
37	37	37	40	43	33	40	27
36	36	36	39	41	32	39	27
35	35	35	38	40	30	38	26
34	34	35	37	39	29	38	25
33	33	34	36	38	27	37	25
32	32	33	35	36	26	36	24
31	32	33	35	35	25	35	24
30	31	32	34	34	24	34	23
29	30	32	33	33	23	33	23
28	30	31	33	33	22	32	23
27	29	30	32	32	21	32	22
26	28	30	32	31	20	31	22
25	27	29	31	30	19	30	21
24	27	29	31	29	19	29	21
23	26	28	30	28	18	28	21
22	25	27	30	27	17	27	20
21	25	27	29	26	17	26	20
20	24	26	28	25	16	24	19
19	23	25	26	25	16	23	19
18	22	24	27	24	15	22	18
17	21	23	26	23	14	21	17
16	20	22	25	22	14	20	17
15	19	21	24	20	13	18	16
14	18	20	23	19	12	17	15
13	16	18	22	18	11	15	14
12	15	17	20	16	10	14	13
11	14	15	18	15	10	12	12
10	12	14	17	14	9	11	11
9	11	12	15	12	8	10	9
8	10	11	13	11	7	9	8
7	9	9	12	10	6	8	7
6	7	8	10	9	5	7	6
5	6	7	8	7	4	6	5
4	5	6	7	6	3	5	4
3	4	4	5	5	2	4	3
2	3	3	4	4	2	3	2
1	2	2	2	3	1	2	1
Number of items							
43	40	40	50	50	48	42	30

READING COMPREHENSION

ITBS 1971 Level 11 Form 5 Reading Comprehension	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
74	42	45	52	45	64	48	30
73	42	45	52	45	64	48	30
72	42	45	52	45	63	48	30
71	42	45	52	44	62	48	30
70	42	44	52	44	61	47	30
69	41	44	51	43	59	47	29
68	41	44	51	43	58	46	29
67	41	43	51	42	57	46	29
66	40	43	50	42	56	45	28
65	40	43	50	41	55	45	28
64	39	42	49	41	54	44	28
63	39	42	49	40	53	44	27
62	38	42	49	40	52	43	27
61	38	41	48	39	50	43	27
60	37	41	48	39	49	42	26
59	37	40	47	38	48	42	26
58	37	40	47	38	47	41	26
57	36	40	46	37	46	41	25
56	36	39	46	37	45	40	25
55	35	39	45	36	44	40	25
54	35	39	45	36	43	39	24
53	34	38	45	35	42	39	24
52	34	38	44	35	41	38	23
51	33	38	44	34	40	37	23
50	33	37	43	33	39	37	23
49	32	37	43	33	38	36	22
48	32	37	42	32	37	36	22
47	31	36	42	32	36	35	21
46	31	36	41	31	36	34	21
45	30	35	41	30	35	34	21
44	30	35	40	30	34	33	20
43	30	34	40	29	33	32	20
42	29	34	39	29	32	32	19
41	29	34	39	28	32	31	19
40	28	33	38	27	31	30	18
39	28	32	37	27	30	29	18
38	27	32	37	26	29	29	17
37	27	31	36	25	29	28	17
36	26	31	35	25	28	27	17
35	26	30	35	24	27	27	16
34	25	30	34	24	26	26	16
33	25	29	33	23	26	25	15
32	24	28	32	22	25	24	15
31	24	27	31	22	24	24	15
30	23	27	30	21	24	23	14
29	23	26	29	20	23	22	13
28	22	25	28	20	22	22	13
27	22	24	27	19	22	21	12
26	21	23	26	18	21	20	12
25	20	22	25	18	20	19	12
24	19	21	24	17	19	18	11
23	19	20	22	16	19	18	11
22	18	18	21	15	18	17	10
21	17	17	19	14	17	16	9
20	16	16	18	14	16	15	9

Table 12–Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

ITBS 1971 Level 11 Form 5 Reading Comprehension	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
19	15	15	17	13	16	14	8
18	14	14	15	12	15	14	8
17	13	13	14	11	14	13	7
16	12	12	13	11	13	12	7
15	11	12	11	10	12	11	6
14	10	11	10	9	11	10	6
13	10	10	9	8	10	10	5
12	9	9	9	8	10	9	5
11	8	9	8	7	9	8	5
10	8	8	7	7	8	8	4
9	7	8	7	6	7	7	4
8	6	7	6	6	6	7	4
7	6	6	5	5	6	6	3
6	5	5	5	4	5	6	3
5	4	4	4	3	4	5	2
4	3	4	3	3	4	4	2
3	2	3	3	2	3	4	1
2	2	2	2	1	2	3	1
1	1	1	1	0	2	3	0
Number of items							
74	42	45	52	45	64	48	30

Table 12—Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971 Level 11 Form 5	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
117	82	85	102	95	112	90	60
116	82	85	102	95	112	90	60
115	82	85	101	95	111	90	60
114	82	85	100	95	109	90	60
113	82	84	99	94	108	90	60
112	81	84	99	93	106	89	59
111	81	83	98	92	104	89	59
110	81	83	97	92	103	88	59
109	80	82	96	91	101	88	58
108	80	82	95	90	99	87	58
107	79	81	95	89	97	87	57
106	79	81	94	89	96	86	57
105	78	81	93	88	94	86	56
104	78	80	92	87	93	85	56
103	77	80	92	86	92	85	56
102	77	79	91	86	91	84	55
101	76	79	91	85	89	84	55
100	76	79	90	85	88	84	55
99	76	78	89	84	87	83	54
98	75	78	89	83	86	83	54
97	74	77	88	82	84	82	53
96	74	77	87	81	83	82	53
95	73	77	86	81	82	81	53
94	73	76	86	80	80	80	52
93	72	76	85	79	79	80	52
92	71	75	84	78	78	79	51
91	71	75	84	77	76	79	51
90	70	74	83	76	75	78	50
89	69	74	82	75	73	77	50
88	69	73	82	75	72	77	49
87	68	73	81	74	71	76	49
86	68	72	81	73	69	75	49
85	67	72	80	73	68	75	48
84	67	71	79	72	67	74	48
83	66	71	79	71	66	74	47
82	66	71	78	70	65	73	47
81	65	70	78	69	64	72	47
80	64	70	77	69	63	72	46
79	64	69	77	68	62	71	46
78	63	69	76	67	61	70	45
77	63	68	76	67	60	70	45
76	62	68	75	66	59	69	45
75	62	68	75	65	58	68	44
74	61	67	74	64	57	68	44
73	60	66	73	64	56	67	43
72	60	66	73	63	55	66	43
71	59	65	72	62	55	65	42
70	58	65	72	61	54	64	42
69	58	64	71	60	53	63	41
68	57	64	70	60	52	63	41
67	57	63	70	59	51	62	40
66	56	63	69	58	51	61	40
65	56	62	69	57	50	60	40
64	55	61	68	57	49	59	39
63	55	61	68	56	49	59	39
62	54	60	67	55	48	58	38
61	54	60	66	55	47	57	38
60	53	59	66	54	46	56	37
59	52	59	65	53	46	55	37
58	52	58	64	53	45	55	37
57	51	57	64	52	44	54	36
56	51	57	63	51	44	53	36
55	50	56	62	51	43	52	35
54	49	55	62	50	42	51	35
53	49	55	61	49	42	50	34
52	48	54	60	48	41	50	34
51	48	53	59	48	41	49	33
50	47	53	59	47	40	48	33
49	46	52	58	46	39	47	33
48	46	51	57	45	39	46	32
47	45	50	56	44	38	45	32
46	44	50	56	44	37	44	31
45	44	49	54	43	37	43	31
44	43	48	53	42	36	42	30
43	42	47	52	41	35	41	29
42	41	46	51	40	35	40	29
41	40	45	50	39	34	39	28
40	39	44	49	38	34	38	28
39	38	42	48	37	33	37	27
38	37	41	46	36	32	35	26
37	37	40	45	35	31	34	26
36	36	38	44	34	31	33	25
35	35	37	43	33	30	32	24
34	33	36	41	32	29	31	23
33	32	34	40	31	28	30	23
32	31	33	39	30	27	29	22
31	30	31	37	28	26	27	21
30	28	30	35	27	25	26	20
29	27	28	33	26	24	25	19
28	26	27	31	25	23	24	18
27	25	26	29	24	23	23	17
26	24	25	28	24	22	23	17
25	23	24	26	23	21	22	16
24	22	22	25	22	20	21	15
23	21	21	23	21	19	20	15
22	20	21	22	20	18	19	14
21	19	20	21	19	18	19	14
20	18	19	20	19	17	18	13
19	18	18	19	18	16	17	13
18	17	18	18	17	15	17	12
17	17	17	17	16	15	16	12
16	16	16	16	16	14	16	12
15	16	16	15	15	13	15	11
14	15	15	14	14	12	14	11
13	14	14	13	13	12	13	10
12	13	13	12	12	11	13	9
11	12	12	12	11	10	12	9
10	11	10	11	10	9	11	8
9	11	9	10	9	8	10	7
8	10	8	9	8	7	9	6

Table 12—Grade 5: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971 Level 11 Form 5	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
7	9	7	8	7	6	8	6
6	8	6	7	5	5	7	5
5	7	5	7	5	4	6	4
4	6	3	6	4	3	5	3
3	5	2	5	3	3	4	3
2	5	1	4	3	2	3	2
1	4	1	3	3	2	2	2
Number of items 117	82	86	102	95	112	90	60

Table 13—Grade 5: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

MAT 1970 Inter. Form F Word Knowledge	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form G Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
50	40	40	48	43	47	42	30
49	40	40	46	42	44	42	30
48	40	39	45	41	41	42	30
47	39	39	44	40	40	42	29
46	39	38	43	40	38	41	29
45	38	38	42	39	37	41	28
44	38	37	41	38	36	40	28
43	37	37	40	37	34	40	27
42	37	37	39	37	33	39	27
41	36	36	39	36	32	39	26
40	35	35	38	35	30	38	26
39	35	35	37	34	29	38	26
38	34	34	36	33	28	37	25
37	33	34	36	33	26	36	25
36	32	33	35	32	25	36	24
35	31	32	34	31	24	35	24
34	31	32	34	30	23	34	23
33	30	31	33	29	22	33	23
32	29	31	32	27	21	32	22
31	28	30	32	26	20	31	22
30	27	29	31	25	20	30	21
29	27	29	31	24	19	29	21
28	26	28	30	23	18	28	20
27	25	27	29	22	17	26	20
26	24	26	29	21	16	25	19
25	23	25	28	20	16	24	19
24	22	25	27	18	15	23	18
23	22	24	27	17	15	22	18
22	21	23	26	16	14	20	17
21	20	22	25	16	13	19	17
20	19	21	24	15	13	18	16
19	18	20	23	14	12	17	15
18	17	19	22	13	12	15	14
17	16	18	21	13	11	14	14
16	15	16	20	12	10	13	13
15	14	15	19	11	10	13	12
14	13	14	17	10	9	12	11
13	12	13	16	10	8	11	10
12	11	12	15	9	7	10	9
11	10	11	13	8	7	9	8
10	9	9	12	7	6	8	7
9	8	8	10	6	5	8	7
8	7	8	9	6	5	7	6
7	6	7	8	5	4	6	5
6	5	6	7	4	3	5	5
5	4	5	5	3	2	4	4
4	3	3	4	2	2	3	2
3	2	2	2	1	1	2	1
2	1	1	1	1	0	1	1
1	0	1	1	0	0	1	0
Number of items 50	40	40	50	43	48	42	30

READING COMPREHENSION

MAT 1970 Inter. Form F Reading	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form G Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
45	42	45	52	72	63	45	30
44	42	44	52	70	61	47	30
43	41	44	51	68	58	46	29
42	40	43	50	66	56	45	29
41	39	42	50	64	54	44	28
40	38	42	49	63	52	44	27
39	38	41	48	60	50	43	27
38	37	40	47	58	48	41	26
37	36	40	46	57	46	40	25
36	35	39	45	55	44	39	24
35	34	38	45	53	42	38	24
34	33	38	44	51	40	37	23
33	32	37	43	50	39	36	22
32	32	36	42	48	37	35	22
31	31	36	41	46	36	34	21
30	30	35	40	44	34	33	20
29	30	34	40	43	33	32	20
28	29	34	39	41	32	31	19
27	28	33	38	40	31	30	18
26	27	32	37	39	29	29	17
25	26	31	36	38	28	27	17
24	26	30	34	35	27	26	16
23	25	29	33	33	26	25	15
22	24	28	32	32	25	24	14
21	23	27	30	30	24	23	14
20	22	25	29	29	23	22	13
19	22	24	27	27	22	21	12
18	21	23	26	26	21	20	12
17	20	21	24	24	20	19	11
16	19	20	22	23	19	18	11
15	18	18	21	22	18	17	10
14	17	17	19	21	17	16	9
13	15	16	17	19	16	15	9
12	14	14	15	18	15	14	8
11	13	13	14	17	14	13	7
10	12	12	12	15	12	11	7
9	10	11	10	14	11	10	6
8	9	9	9	13	10	9	5
7	8	8	8	11	8	8	4
6	7	7	7	9	7	7	3
5	6	6	6	7	6	6	3
4	5	5	5	6	5	5	2
3	4	4	4	5	4	5	2
2	3	3	3	3	3	4	1
1	2	2	2	2	2	3	1
Number of items 45	42	45	52	74	64	48	30

Table 13–Grade 5: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

MAT 1970 Inter. Form F	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	SAT 1964 Inter. II Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
95	82	85	101	115	111	90	60
94	82	85	100	114	109	90	60
93	81	84	99	112	106	89	59
92	81	83	98	111	104	85	59
91	80	82	96	109	101	88	58
90	80	82	95	108	99	87	58
89	79	81	94	107	97	87	57
88	78	81	93	105	95	86	57
87	78	80	92	104	93	85	56
86	77	80	91	102	91	85	55
85	76	79	90	101	89	84	55
84	76	78	90	99	87	83	54
83	75	78	89	98	86	83	54
82	74	77	88	97	84	82	53
81	74	77	87	96	82	81	53
80	73	76	86	94	81	81	52
79	72	76	85	93	79	80	52
78	71	75	84	92	78	79	51
77	71	75	84	91	76	78	51
76	70	74	83	90	[illegible]	78	50
75	69	73	82	89	72	77	50
74	68	73	81	87	71	76	49
73	68	72	80	86	69	75	48
72	67	72	80	84	68	74	48
71	66	71	79	83	66	74	47
70	65	70	78	82	65	73	47
69	65	70	78	81	64	72	46
68	64	69	77	79	62	71	46
67	63	69	76	78	61	70	45
66	62	68	75	76	60	69	45
65	61	67	75	75	58	68	44
64	61	67	74	74	57	67	43
63	60	66	73	72	56	66	43
62	59	65	72	71	55	65	42
61	58	65	71	70	53	64	42
60	58	64	71	69	52	63	41
59	57	63	70	67	51	62	40
58	56	62	69	66	50	61	40
57	55	62	68	65	49	60	39
56	55	61	68	63	49	59	39
55	54	60	67	62	47	58	38
54	53	59	66	60	46	56	37
53	52	58	65	59	45	55	37
52	51	57	64	57	45	54	36
51	50	57	63	56	44	53	36
50	50	56	62	54	43	51	35
49	49	55	61	53	42	50	34
48	48	54	60	52	41	49	34
47	47	53	59	50	40	48	33
46	46	52	58	49	39	47	32
45	45	51	56	48	38	46	32
44	45	50	55	47	38	45	31
43	44	49	54	45	37	44	31
42	43	48	53	44	36	42	30
41	42	47	52	43	36	41	29

MAT 1970 Inter. Form F	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	SAT 1964 Inter. II Form W	SRA-ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
40	41	46	51	42	35	40	29
39	40	45	50	41	34	39	28
38	39	44	49	40	33	38	28
37	38	42	48	39	33	37	27
36	38	41	46	38	32	35	26
35	37	40	45	37	31	34	25
34	36	39	44	36	31	33	25
33	35	37	43	35	30	32	24
32	34	36	42	34	29	31	24
31	33	35	40	33	28	30	23
30	31	33	39	32	28	29	22
29	30	32	37	32	27	28	21
28	29	31	36	31	26	27	20
27	28	29	34	30	25	26	20
26	27	28	32	29	24	25	19
25	25	27	30	28	23	24	18
24	24	25	29	27	22	23	17
23	23	24	27	25	21	22	16
22	22	23	25	24	20	21	16
21	21	21	23	23	19	20	15
20	20	20	22	22	18	19	14
19	19	19	21	21	17	18	13
18	18	18	19	19	16	18	13
17	17	17	18	18	15	17	12
16	16	17	17	17	14	16	12
15	16	16	15	15	13	15	11
14	15	15	14	14	12	14	11
13	14	14	13	13	11	13	10
12	13	12	12	12	10	12	9
11	12	11	11	11	10	11	9
10	11	10	11	10	9	10	8
9	11	9	10	9	8	9	7
8	10	8	9	8	7	9	7
7	9	7	8	7	6	8	6
6	8	6	7	5	5	7	5
5	7	5	7	5	5	6	5
4	6	4	6	4	4	5	4
3	5	3	5	3	3	4	3
2	4	3	4	3	2	3	2
1	4	2	3	3	1	2	2
Number of items							
95	82	85	102	117	112	90	60

Table 14—Grade 5: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SAT 1964 Inter. II Form W Word Meaning	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
48	40	40	49	43	50	42	30
47	40	40	48	43	50	42	30
46	40	40	48	43	50	42	30
45	40	40	47	42	50	42	30
44	40	40	47	42	49	42	30
43	40	40	46	42	49	42	30
42	40	40	46	41	48	42	30
41	40	39	45	41	48	42	30
40	39	39	44	41	47	42	29
39	39	39	44	40	47	41	29
38	39	38	43	39	46	41	29
37	38	38	42	39	45	41	28
36	38	38	41	38	44	40	28
35	37	37	41	38	44	40	28
34	37	37	40	37	43	40	27
33	37	37	39	37	42	39	27
32	36	36	39	36	41	39	27
31	36	36	38	36	41	39	26
30	35	35	38	35	40	38	26
29	35	35	37	34	39	38	26
28	34	35	37	34	38	37	25
27	33	34	36	33	38	37	25
26	33	34	36	32	37	36	25
25	32	33	35	31	36	35	24
24	31	32	34	31	35	35	24
23	31	32	34	30	34	34	23
22	30	31	33	28	33	33	23
21	29	31	32	27	32	32	22
20	28	30	32	26	31	30	22
19	27	29	31	24	29	29	21
18	26	28	30	23	28	28	21
17	25	27	29	22	27	26	20
16	24	26	28	20	25	24	19
15	22	24	27	18	24	22	18
14	21	23	26	17	22	20	17
13	19	21	24	15	21	18	16
12	18	20	23	14	19	16	15
11	16	18	21	13	17	15	14
10	14	16	19	12	16	13	12
9	13	14	18	10	14	12	11
8	12	13	16	9	13	11	10
7	10	11	14	8	12	9	9
6	9	10	12	7	10	8	8
5	8	8	10	6	9	7	6
4	6	7	8	5	7	6	5
3	5	6	6	4	6	5	4
2	4	4	5	3	4	4	3
1	2	2	3	1	3	2	2
Number of items							
48	40	40	50	43	50	42	30

READING COMPREHENSION

SAT 1964 Inter. II Form W Paragraph Meaning	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
64	42	45	52	73	45	48	30
63	42	45	52	72	45	48	30
62	42	45	52	71	45	48	30
61	42	44	52	70	44	47	30
60	42	44	52	70	44	47	30
59	41	44	51	69	43	47	29
58	41	44	51	68	43	46	29
57	41	43	51	67	42	46	29
56	40	43	50	66	42	45	29
55	40	43	50	65	42	45	28
54	39	42	50	64	41	44	28
53	39	42	49	63	40	44	27
52	39	42	49	62	40	44	27
51	38	41	48	62	40	43	27
50	38	41	48	61	39	43	27
49	37	41	48	60	39	42	26
48	37	40	47	59	38	42	26
47	36	40	47	58	38	41	26
46	36	40	46	57	37	41	25
45	36	39	46	56	37	40	25
44	35	39	45	55	36	40	25
43	35	39	45	54	36	39	24
42	34	38	45	53	35	39	24
41	34	38	44	52	35	38	23
40	33	38	44	51	34	37	23
39	33	37	43	50	33	37	23
38	32	37	43	49	33	36	22
37	32	36	42	48	32	35	22
36	31	36	42	47	31	35	21
35	31	35	41	46	31	34	21
34	30	35	40	44	30	33	20
33	30	34	40	43	29	32	20
32	29	34	39	42	28	31	19
31	28	33	38	40	27	30	18
30	28	32	37	39	27	29	18
29	27	32	36	38	26	28	17
28	26	31	35	36	25	27	17
27	26	30	34	35	24	26	16
26	25	29	33	34	22	25	15
25	24	28	32	32	22	24	15
24	24	27	31	31	21	23	14
23	23	26	29	29	20	22	13
22	22	25	28	28	19	21	13
21	21	23	26	26	18	20	12
20	20	22	25	25	17	19	11
19	19	20	23	24	16	18	11
18	18	19	21	22	15	17	10
17	17	17	19	21	14	16	9
16	16	16	18	20	13	15	9
15	15	15	16	18	12	14	8
14	13	13	14	17	11	13	7
13	12	12	13	16	11	12	7
12	11	11	11	15	10	11	6
11	10	11	10	14	9	10	6
10	9	10	9	13	8	9	5

Table 14–Grade 5: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

SAT 1964 Inter. II Form W Paragraph Meaning	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
9	9	9	8	11	7	9	5
8	8	8	7	10	7	8	4
7	7	7	7	9	6	7	4
6	6	7	6	8	5	6	3
5	5	5	5	6	4	6	2
4	4	4	4	5	3	5	2
3	2	3	3	3	2	4	1
2	1	1	2	2	1	3	1
1	1	1	1	0	0	2	1
Number of items							
64	42	45	52	74	45	48	30

Table 14–Grade 5: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SAT 1964 Inter. II Form W	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form SM	ITBS 1971 Level 11 Form S	MAT 1970 Inter. Form F	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level A Form A
Raw score	Equivalent raw score						
112	82	85	102	116	95	90	60
111	82	85	101	115	95	90	60
110	82	85	101	114	95	90	60
109	82	85	100	114	94	90	60
108	82	85	100	113	94	90	60
107	82	84	99	113	93	90	60
106	81	84	99	112	93	89	59
105	81	84	98	112	93	89	59
104	81	83	98	111	92	89	59
103	81	83	97	110	92	88	59
102	80	83	97	110	91	88	58
101	80	83	96	109	91	88	58
100	80	82	96	109	91	88	58
99	80	82	96	108	90	87	58
98	80	82	95	108	90	87	58
97	79	81	95	107	89	87	57
96	79	81	94	106	89	86	57
95	79	81	93	106	88	86	57
94	78	81	93	105	88	86	56
93	78	80	92	104	87	85	56
92	77	80	92	103	87	85	56
91	77	80	91	102	86	85	55
90	77	79	91	102	86	84	55
89	76	79	90	101	85	84	55
88	76	79	90	100	84	84	55
87	76	78	89	99	84	83	54
86	75	78	89	98	83	83	54
85	75	78	88	98	83	82	54
84	74	77	88	97	82	82	53
83	74	77	87	96	81	82	53
82	73	77	87	95	81	81	53
81	73	76	86	95	80	81	52
80	72	76	86	94	80	80	52
79	72	76	85	93	79	80	52
78	72	75	85	92	78	79	51
77	71	75	84	92	78	79	51
76	71	75	84	91	77	79	51
75	70	74	83	90	77	78	50
74	70	74	83	90	76	78	50
73	69	74	82	89	75	77	50
72	69	73	82	88	75	77	49
71	68	73	81	87	74	76	49
70	68	72	81	87	74	76	49
69	67	72	80	86	73	75	48
68	67	72	80	85	72	75	48
67	67	71	79	84	72	74	48
66	66	71	79	83	71	73	47
65	65	71	78	82	70	73	47
64	65	70	78	81	69	72	47
63	64	70	77	80	69	72	46
62	64	69	77	79	68	71	46
61	63	69	76	78	67	70	46
60	63	68	76	77	66	70	45
59	62	68	75	76	66	69	44
58	61	67	75	75	65	68	44
57	61	67	74	74	64	67	43
56	60	66	73	73	63	66	43
55	59	66	72	72	62	65	42
54	59	65	72	70	62	64	42
53	58	64	71	69	61	63	41
52	57	64	70	68	60	62	41
51	57	63	70	67	59	61	40
50	56	62	69	66	58	60	40
49	55	61	68	64	57	59	39
48	54	60	67	62	56	58	38
47	53	60	66	61	55	57	38
46	53	59	65	60	54	56	37
45	52	58	64	58	53	54	37
44	51	57	63	57	51	53	36
43	50	56	62	55	50	52	35
42	49	55	61	53	49	51	35
41	48	54	60	52	48	49	34
40	47	53	59	50	47	48	33
39	46	52	57	49	46	47	32
38	45	51	56	47	45	45	32
37	44	49	54	46	43	44	31
36	43	48	53	44	42	42	30
35	42	46	51	42	40	40	29
34	40	45	50	41	39	39	28
33	39	43	48	39	38	37	27
32	38	41	46	38	36	35	26
31	36	39	45	37	35	34	25
30	35	38	43	35	33	32	24
29	33	36	41	34	32	31	23
28	32	34	40	33	31	30	22
27	31	32	39	32	29	28	21
26	29	31	36	31	28	27	20
25	28	29	34	30	27	25	20
24	26	28	32	29	26	25	19
23	25	27	30	28	25	24	18
22	24	25	28	26	24	23	17
21	23	24	27	25	23	22	16
20	22	23	25	24	22	21	15
19	21	21	23	23	21	20	15
18	20	20	22	22	20	19	14
17	19	19	20	20	19	18	13
16	18	18	19	19	18	17	13
15	17	17	18	18	17	17	12
14	16	17	17	16	16	16	12
13	16	16	15	15	15	15	11
12	15	15	14	14	14	14	11
11	14	13	13	12	13	13	10
10	13	12	12	11	12	12	9
9	12	11	11	10	10	11	8
8	11	9	10	9	9	10	7
7	10	8	9	8	8	9	7
6	9	7	8	7	7	8	6
5	8	6	7	6	6	6	5
4	7	4	6	5	4	5	4
3	6	3	4	4	3	4	3
2	4	2	4	3	2	3	3
1	3	2	3	3	1	3	2
Number of items							
112	82	85	102	117	85	90	60

Table 15--Grade 5: Raw scores for the SRA Achievement Series (SRA ACH), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SRA ACH 1971 Blue Level Form E Vocabulary	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 11 Form S Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
42	40	39	45	41	48	41	30
41	38	38	43	39	46	38	28
40	37	37	40	38	43	35	27
39	36	36	39	36	41	32	27
38	35	35	37	35	40	30	26
37	34	34	36	33	38	28	25
36	33	33	34	32	37	26	25
35	32	32	33	31	35	25	24
34	31	32	34	30	34	23	23
33	30	31	33	29	33	22	23
32	29	31	33	28	32	21	22
31	28	30	32	26	31	21	22
30	28	29	31	25	30	20	22
29	27	29	31	24	29	19	21
28	26	28	30	23	28	18	21
27	26	27	30	22	28	18	20
26	25	27	29	21	27	17	20
25	24	26	29	21	26	16	19
24	23	26	28	20	25	16	19
23	23	25	28	19	24	15	18
22	22	24	27	18	23	15	18
21	21	23	26	17	23	14	18
20	21	23	26	16	22	14	17
19	20	22	25	16	21	13	17
18	19	21	24	15	20	13	16
17	18	20	23	14	19	12	15
16	17	19	22	14	19	12	15
15	16	18	21	13	18	11	14
14	15	17	20	12	17	11	13
13	14	16	19	12	16	10	12
12	13	15	18	11	14	9	11
11	12	13	17	10	13	8	10
10	11	12	15	9	12	8	9
9	10	11	14	8	11	7	8
8	9	9	11	7	10	6	7
7	7	8	10	6	8	5	6
6	6	7	8	5	7	4	5
5	5	5	6	4	6	3	4
4	4	4	5	3	5	2	3
3	3	3	4	2	4	2	2
2	2	2	2	1	3	1	1
1	1	1	1	0	2	0	0
Number of items 42	40	40	50	43	50	48	30

READING COMPREHENSION

SRA ACH 1971 Blue Level Form E Reading	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form S Reading Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
48	42	45	52	72	45	63	30
47	42	44	52	70	44	61	30
46	41	44	51	68	43	58	29
45	40	43	50	66	42	56	28
44	39	42	49	64	41	53	28
43	38	41	48	61	39	51	27
42	37	41	47	60	38	49	26
41	36	40	47	58	38	47	26
40	35	39	46	56	37	45	25
39	34	39	45	54	36	43	24
38	34	38	44	52	35	41	24
37	33	37	44	51	34	40	23
36	32	37	43	49	33	38	22
35	31	36	42	47	32	37	22
34	31	36	41	46	31	35	21
33	30	35	40	44	30	34	20
32	29	34	39	43	29	33	20
31	29	34	39	41	28	32	19
30	28	33	38	40	27	31	18
29	28	32	37	39	26	30	18
28	27	31	36	37	26	29	17
27	26	31	35	36	25	28	16
26	26	30	34	34	24	27	16
25	25	29	33	33	23	26	15
24	24	28	32	32	22	25	14
23	23	27	30	30	21	24	14
22	23	26	29	29	20	23	13
21	22	24	27	27	19	22	13
20	21	23	26	26	18	21	12
19	20	22	25	25	17	20	11
18	19	20	23	24	16	19	11
17	18	19	21	22	15	18	10
16	17	17	19	21	14	17	10
15	16	16	17	20	13	16	9
14	15	15	16	19	12	15	8
13	13	14	14	17	11	14	8
12	12	12	13	16	11	13	7
11	11	11	11	15	10	12	6
10	10	10	10	14	9	11	6
9	9	9	9	12	8	10	5
8	8	8	8	11	7	8	4
7	7	7	7	9	6	7	4
6	6	6	5	7	5	6	3
5	4	5	4	5	4	4	2
4	3	3	3	3	2	3	1
3	1	2	2	2	1	2	0
2	0	0	1	1	0	1	0
1	0	0	1	0	0	1	0
Number of items 48	47	45	52	74	45	64	30

Table 15–Grade 5: Raw scores for the SRA Achievement Series (SRA ACH), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SRA ACH 1971 Blue Level Form E	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
90	82	85	100	114	94	109	60
89	81	84	98	112	93	105	59
88	80	83	97	110	91	102	58
87	79	82	95	108	90	98	57
86	78	81	93	106	88	95	57
85	77	80	92	104	87	92	56
84	76	79	91	101	85	90	55
83	75	78	89	99	84	87	54
82	74	77	88	97	82	84	53
81	73	77	87	95	81	82	53
80	72	76	85	93	79	79	52
79	71	75	84	92	78	77	51
78	70	74	83	90	77	75	50
77	69	73	82	89	75	73	50
76	68	73	81	87	74	71	49
75	67	72	80	86	73	69	48
74	67	71	79	84	72	67	48
73	66	71	79	82	70	66	47
72	65	70	78	81	69	64	46
71	64	69	77	79	68	62	46
70	63	69	76	78	67	61	45
69	62	68	75	76	66	59	45
68	61	67	75	75	65	58	44
67	61	67	74	73	64	57	43
66	60	66	73	72	63	56	43
65	59	65	72	71	62	55	42
64	58	65	71	70	61	54	42
63	58	64	71	69	60	53	41
62	57	63	70	67	59	52	41
61	56	63	69	66	58	51	40
60	56	62	69	65	57	50	39
59	55	61	68	64	56	49	39
58	54	60	67	62	55	48	38
57	54	60	66	61	55	47	38
56	53	59	66	60	54	46	37
55	52	58	65	59	53	46	37
54	51	58	64	57	52	45	36
53	51	57	63	56	51	44	36
52	50	56	62	55	51	43	35
51	49	55	61	54	50	42	35
50	48	54	61	53	49	42	34
49	48	54	60	51	48	41	34
48	47	53	59	50	47	40	33
47	46	52	58	49	46	39	33
46	46	51	57	48	45	39	32
45	45	50	56	47	44	38	31
44	44	49	55	46	43	37	31
43	44	49	54	45	43	37	30
42	43	48	53	44	42	36	30
41	42	47	52	43	41	36	29

SRA ACH 1971 Blue Level Form E	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
40	41	46	51	42	40	35	29
39	41	45	50	41	39	34	28
38	40	44	49	40	38	34	28
37	39	43	48	39	37	33	27
36	38	42	47	39	37	32	27
35	37	41	46	38	36	32	26
34	36	40	45	37	35	31	26
33	35	39	44	36	34	31	25
32	35	37	43	35	33	30	24
31	34	36	41	34	32	29	24
30	33	35	40	33	31	28	23
29	31	33	39	32	30	28	22
28	30	32	37	32	29	27	21
27	29	31	36	31	28	26	20
26	28	29	34	30	27	25	20
25	27	28	32	29	26	24	19
24	25	27	31	28	25	23	18
23	24	25	29	27	24	22	17
22	23	24	27	26	23	21	16
21	22	23	25	24	22	20	15
20	21	21	23	23	21	19	15
19	19	20	22	21	20	18	14
18	18	19	20	20	19	17	13
17	17	18	19	18	17	16	12
16	16	17	17	17	16	14	12
15	16	16	16	15	15	13	11
14	15	15	14	14	14	12	11
13	14	13	13	13	13	11	10
12	13	12	12	11	12	10	9
11	12	11	11	10	11	9	8
10	11	10	10	9	10	8	8
9	10	9	10	8	9	7	7
8	9	7	9	7	7	6	6
7	8	6	8	6	6	6	5
6	7	5	7	5	5	5	5
5	6	4	6	4	4	4	4
4	5	2	5	3	3	3	3
3	5	1	4	2	2	2	2
2	4	0	3	1	2	2	1
1	3	0	2	1	2	1	1
Number of items 90	82	85	102	117	95	112	80

Table 16--Grade 5: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

STEP II 1969 Level 4 Form A Part 1	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form O Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA-ACH 1971 Blue level Form E Vocabulary
Raw score	Equivalent raw score						
30	40	40	46	42	49	43	42
29	39	39	44	40	47	40	42
28	38	38	42	39	45	37	41
27	37	37	40	37	43	33	40
26	35	35	38	35	40	30	38
25	34	34	36	33	38	27	37
24	32	33	35	31	36	25	35
23	30	31	33	29	34	23	33
22	29	30	32	27	31	21	31
21	27	29	31	24	29	19	29
20	25	27	29	22	27	17	27
19	24	26	28	20	25	16	24
18	22	24	27	18	24	15	22
17	21	23	26	16	22	14	20
16	19	21	24	15	20	13	18
15	18	20	23	14	19	12	17
14	16	18	22	13	18	11	15
13	15	17	20	12	16	11	14
12	14	15	19	11	15	10	13
11	13	14	17	10	14	9	12
10	12	13	16	10	13	8	11
9	10	12	14	9	12	7	10
8	9	10	13	8	11	6	9
7	8	9	11	7	10	6	8
6	7	8	9	6	8	5	7
5	6	6	8	5	7	4	6
4	5	5	6	4	5	3	5
3	4	4	5	3	4	2	4
2	3	3	3	2	4	1	3
1	2	2	2	1	3	1	2
Number of items							
30	40	40	50	43	50	48	42

READING COMPREHENSION

STEP II 1969 Level 4 Form A Part 2	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form O Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 11 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA-ACH 1971 Blue level Form E Reading
Raw score	Equivalent raw score						
30	42	45	52	72	45	62	48
29	41	44	51	68	43	58	46
28	40	42	50	65	41	55	45
27	38	41	49	62	40	52	43
26	37	40	47	59	38	48	42
25	36	39	46	56	37	45	40
24	34	38	45	54	36	43	39
23	33	38	44	51	34	40	37
22	32	37	43	49	32	38	36
21	31	36	41	46	31	36	34
20	30	35	40	44	30	34	33
19	29	34	39	42	28	32	31
18	28	33	38	39	27	30	30
17	27	31	36	37	26	29	28
16	26	30	35	35	24	27	27
15	25	29	33	33	23	26	25
14	24	27	31	31	21	24	23
13	22	25	29	28	20	22	22
12	21	23	26	26	18	21	20
11	20	21	24	24	17	20	19
10	18	19	21	22	15	18	17
9	16	16	18	20	14	17	15
8	15	15	16	18	12	15	14
7	13	13	13	16	11	13	12
6	11	11	11	15	9	12	11
5	9	9	9	12	8	10	9
4	7	8	7	10	7	8	8
3	6	6	5	7	5	6	6
2	4	4	4	5	3	4	5
1	2	3	3	3	2	3	4
Number of items							
30	42	45	52	74	45	64	48

Table 16--Grade 5: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

STEP II 1969 Level 4 Form A	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Blue Level Form E
Raw score	Equivalent raw score						
60	82	85	100	114	94	109	90
59	81	84	98	111	93	105	89
58	80	82	96	109	91	101	88
57	79	81	94	107	89	97	87
56	78	80	92	104	87	93	85
55	76	79	91	101	85	90	84
54	75	78	89	98	83	86	83
53	74	77	87	96	81	83	82
52	72	76	86	94	80	80	80
51	71	75	84	92	78	77	79
50	70	74	83	90	76	74	78
49	68	73	81	87	74	71	76
48	67	72	80	85	72	68	75
47	66	71	78	82	70	65	73
46	64	70	77	80	69	63	72
45	63	69	76	77	67	61	70
44	62	68	75	75	65	58	68
43	60	66	73	73	64	56	67
42	59	65	72	71	62	54	65
41	58	64	71	69	60	53	63
40	56	63	69	66	58	51	61
39	55	61	68	64	57	49	59
38	54	60	67	62	55	48	57
37	52	59	65	59	53	46	55
36	51	57	64	57	52	44	54
35	50	56	62	55	50	43	52
34	48	54	60	52	49	41	50
33	47	53	59	50	47	40	48
32	46	51	57	48	45	39	46
31	44	50	55	46	44	37	44
30	43	48	53	44	42	36	42
29	42	46	51	43	40	35	40
28	40	45	50	41	39	34	39
27	39	43	48	39	37	33	37
26	37	41	46	38	36	32	35
25	36	39	44	36	34	31	33
24	34	37	42	35	33	30	32
23	33	35	41	34	31	29	30
22	31	33	39	32	30	28	29
21	30	32	37	31	29	27	28
20	29	30	35	30	28	26	27
19	27	29	33	29	26	24	25
18	26	27	31	28	25	23	24
17	24	25	29	27	24	22	23
16	23	24	26	25	23	21	22
15	21	22	24	24	21	20	21
14	20	20	22	22	20	18	19
13	18	19	20	20	18	17	18
12	17	17	17	17	17	15	16
11	15	16	15	15	15	13	15
10	14	14	13	13	13	11	13
9	13	12	12	12	12	10	12
8	12	11	11	10	10	9	11
7	10	9	10	9	9	8	9
6	9	7	8	7	7	6	8
5	8	6	7	6	6	5	7
4	7	4	6	5	4	4	5
3	6	2	5	3	3	3	4
2	4	1	4	2	2	1	3
1	3	1	3	2	1	1	1
Number of items							
60	82	85	102	117	95	112	90

Table 17–Grade 6: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CAT 1970 Level 4 Form A Vocabulary	CTBS 1968 Level 3 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 12 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1965 Inter. II Form W Word Meaning	SRA ACH 1971 Green Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
40	40	50	46	50	48	42	30
39	40	49	45	50	47	42	30
38	39	49	44	50	46	42	30
37	39	48	43	50	45	42	30
36	37	47	42	49	44	41	30
35	36	46	41	48	43	41	30
34	35	45	40	48	42	40	29
33	34	44	39	47	41	39	29
32	33	43	38	46	40	38	28
31	32	42	37	45	38	37	28
30	30	41	35	45	37	36	28
29	29	41	34	44	36	35	27
28	28	40	33	43	34	34	27
27	27	39	32	42	33	33	26
26	26	38	31	40	31	32	26
25	24	37	29	39	30	31	25
24	23	36	28	38	28	29	25
23	22	36	27	37	27	28	24
22	21	35	26	36	26	27	24
21	20	34	25	35	24	26	23
20	19	33	24	33	23	24	23
19	18	33	22	32	22	23	22
18	17	32	21	31	21	22	22
17	16	31	20	30	20	21	21
16	15	30	19	28	19	19	20
15	14	29	18	27	18	18	20
14	13	28	17	25	17	17	19
13	13	27	16	23	16	15	18
12	12	26	15	22	14	14	17
11	11	24	14	20	13	13	16
10	10	23	13	18	12	12	14
9	9	21	12	16	11	11	13
8	8	18	11	15	10	10	11
7	7	16	10	13	9	9	10
6	6	14	9	12	8	8	9
5	5	12	8	10	7	7	7
4	4	11	6	9	5	6	6
3	3	9	5	7	4	5	5
2	2	7	4	5	3	4	4
1	1	5	3	3	2	2	2
Number of items							
40	40	50	46	50	48	42	30

READING COMPREHENSION

CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 3 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 12 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
45	45	52	76	45	64	48	30
44	45	52	75	45	64	48	30
43	44	52	73	45	63	48	30
42	43	52	71	45	62	48	30
41	42	52	69	44	61	47	30
40	42	52	67	44	60	47	30
39	41	52	66	43	60	46	29
38	40	51	64	43	59	46	29
37	39	51	63	42	58	45	29
36	39	51	61	42	57	44	28
35	38	50	59	41	56	44	28
34	37	50	58	41	55	43	28
33	36	49	56	40	54	42	27
32	35	49	54	40	53	41	27
31	35	48	53	39	51	40	26
30	34	48	51	39	50	39	26
29	33	47	49	38	49	38	26
28	32	47	47	37	47	37	25
27	31	46	45	36	46	36	25
26	30	46	43	36	44	34	24
25	29	45	42	35	43	33	23
24	28	44	40	34	41	32	23
23	27	43	38	33	39	30	22
22	26	42	36	31	38	29	21
21	25	41	34	30	36	27	20
20	24	40	32	29	34	25	19
19	22	39	30	28	32	24	18
18	21	37	28	26	30	22	17
17	20	35	26	24	28	20	16
16	18	33	24	22	26	18	15
15	17	31	23	21	24	17	13
14	15	28	21	19	22	15	12
13	14	25	20	17	20	14	11
12	13	21	18	15	18	13	10
11	11	18	17	13	17	11	8
10	10	15	15	11	15	10	7
9	9	13	14	10	13	9	6
8	8	10	12	8	11	7	5
7	7	8	9	7	10	6	4
6	6	7	7	6	8	5	3
5	4	5	6	5	6	4	2
4	3	4	4	4	4	3	2
3	2	3	3	2	3	2	1
2	1	1	1	1	1	1	1
1	1	1	1	1	0	0	0
Number of items							
45	45	52	76	45	64	48	30

Table 17—Grade 6: Raw scores for the California Achievement Tests (CAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 19 1 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
85	85	102	122	95	112	90	60
84	85	102	121	95	112	90	60
83	85	102	120	95	111	90	60
82	84	102	119	95	110	90	60
81	83	101	117	94	109	90	60
80	82	101	116	94	108	89	60
79	82	101	114	94	107	89	60
78	81	100	113	93	106	89	60
77	80	100	112	93	106	88	59
76	79	99	110	92	105	88	59
75	78	99	109	92	104	88	59
74	78	98	108	92	103	87	58
73	77	98	106	91	102	87	58
72	76	97	105	91	101	86	58
71	75	96	104	90	100	85	57
70	74	96	102	89	99	84	57
69	73	95	101	89	98	84	57
68	72	94	99	88	97	83	56
67	71	94	97	88	96	82	56
66	70	93	96	87	95	81	56
65	69	93	94	86	94	80	55
64	68	92	93	86	92	79	55
63	67	91	91	85	91	79	55
62	66	91	90	84	90	78	54
61	65	90	88	84	88	77	54
60	64	89	87	83	87	76	53
59	63	89	85	82	86	75	53
58	62	88	83	82	84	74	53
57	61	87	82	81	83	73	52
56	60	86	80	80	82	71	52
55	59	86	79	79	80	70	51
54	58	85	77	78	79	69	51
53	57	84	76	78	78	68	50
52	56	84	74	76	76	67	50
51	55	83	72	75	74	65	49
50	54	82	71	74	73	64	49
49	53	81	70	73	71	63	48
48	52	80	68	72	69	61	47
47	51	79	66	71	68	60	47
46	49	78	65	70	66	58	46
45	48	78	63	69	65	57	46
44	47	77	62	67	63	55	45
43	46	76	60	66	61	54	44
42	45	75	59	65	60	52	43
41	44	74	57	64	58	51	42
40	43	73	55	62	57	50	42
39	42	72	54	61	55	48	41
38	40	71	52	60	54	47	40
37	39	70	51	58	52	45	39
36	38	68	49	57	51	44	38
35	37	67	48	55	49	42	38
34	36	66	46	54	48	41	37
33	34	65	45	52	46	39	36
32	33	63	44	51	45	38	35
31	32	62	42	49	44	36	34
30	31	60	41	47	42	35	33
29	30	58	39	45	40	33	32
28	29	56	38	44	39	32	31
27	28	54	37	42	38	30	30
26	27	52	36	40	36	29	28
25	26	50	34	38	35	28	27
24	25	47	33	36	33	26	26
23	24	45	32	34	32	25	24
22	22	42	31	32	30	24	23
21	21	39	29	30	29	23	21
20	20	36	28	28	27	21	20
19	19	33	27	26	26	20	19
18	18	30	25	24	24	19	17
17	17	27	24	23	22	18	16
16	16	25	22	21	21	17	14
15	15	23	21	20	19	16	13
14	14	21	19	18	17	14	12
13	13	20	17	17	16	13	11
12	12	18	16	16	14	12	10
11	11	17	15	14	13	11	9
10	10	15	14	13	11	9	8
9	9	14	12	12	10	8	7
8	8	12	11	11	8	7	7
7	6	11	10	10	7	5	6
6	5	9	9	8	5	4	5
5	4	8	8	7	4	2	4
4	3	6	7	6	2	1	3
3	2	5	6	5	1	1	2
2	1	4	5	3	0	0	2
1	0	3	3	2	0	0	2
Number of items							
85	85	102	122	95	112	90	60

Table 18—Grade 6: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

CTBS 1968 Level 3 Form G Vocabulary	CAT 1970 Level 4 Form A Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 12 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Green Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
40	40	50	46	50	48	42	30
39	38	48	44	50	46	42	30
38	37	47	43	49	44	42	30
37	36	47	42	49	43	41	30
36	35	46	41	48	42	40	29
35	34	45	40	48	42	40	29
34	33	44	39	47	41	39	29
33	32	43	38	46	40	38	28
32	31	42	37	46	39	38	28
31	31	42	36	45	37	37	28
30	30	41	35	44	36	36	27
29	29	41	34	44	35	35	27
28	28	40	33	43	34	34	27
27	27	39	32	42	33	33	26
26	26	38	31	41	32	32	26
25	26	38	30	40	30	31	26
24	25	37	29	39	29	30	25
22	24	36	28	38	28	29	25
22	23	36	27	37	27	28	24
21	22	35	26	36	26	27	24
20	21	34	25	35	24	26	23
19	20	34	24	33	23	24	23
18	19	33	23	32	22	23	22
17	18	32	21	31	21	22	22
16	17	31	20	29	20	20	21
15	16	30	19	28	19	19	20
14	15	29	18	26	17	17	19
13	14	28	16	24	16	16	18
12	12	26	15	23	15	15	17
11	11	25	14	21	14	13	16
10	10	23	13	19	13	12	15
9	9	21	12	17	11	11	13
8	8	18	11	15	10	10	11
7	7	16	9	13	8	9	10
6	6	14	8	11	7	8	8
5	5	12	7	10	6	7	7
4	4	10	6	8	5	6	6
3	3	8	5	6	4	4	4
2	2	6	4	4	3	3	3
1	1	4	3	2	1	1	1
Number of items 40	40	50	46	50	48	42	30

READING COMPREHENSION

CTBS 1968 Level 3 Form G Comprehension	CAT 1970 Level 4 Form A Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 12 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
45	44	52	75	45	64	48	30
44	43	52	73	45	63	48	30
43	42	52	71	45	62	48	30
42	41	52	68	44	61	47	30
41	39	52	66	44	60	47	29
40	38	51	64	43	59	46	29
39	37	51	62	42	58	45	29
38	35	50	60	42	57	44	28
37	34	50	58	41	55	43	28
36	33	49	56	40	54	42	27
35	32	49	54	40	52	41	27
34	30	48	52	39	51	40	26
33	29	48	49	38	49	38	26
32	28	47	47	37	47	37	25
31	27	46	45	36	46	36	25
30	26	46	43	35	44	34	24
29	25	45	41	34	43	33	23
28	24	44	39	33	41	31	23
27	23	43	38	32	39	30	22
26	22	42	36	31	38	28	21
25	21	41	34	30	36	27	20
24	20	40	33	29	34	26	19
23	19	39	31	28	33	24	19
22	19	38	30	27	32	23	18
21	18	37	28	26	30	22	17
20	17	36	27	25	29	21	16
19	17	35	26	24	28	19	15
18	16	33	24	22	26	18	15
17	15	32	23	21	25	17	14
16	15	30	22	20	23	16	13
15	14	27	21	18	22	15	12
14	13	25	20	17	20	14	11
13	12	23	19	15	19	13	10
12	12	20	18	14	18	12	9
11	11	18	16	13	16	11	8
10	10	15	15	11	15	10	7
9	9	13	14	10	13	9	6
8	8	10	12	9	11	8	5
7	7	9	10	7	10	6	4
6	6	7	8	6	8	5	3
5	6	6	7	5	7	4	3
4	5	5	5	4	6	4	2
3	4	4	4	3	4	3	2
2	3	3	3	2	3	2	1
1	2	2	2	1	1	1	1
Number of items 45	45	52	76	45	64	48	30

Table 18–Grade 6: Raw scores for the Comprehensive Tests of Basic Skills (CTBS), 1968 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

CTBS 1968 Level 3 Form Q	CAT 1970 Level 4 Form A	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
85	83	102	121	95	112	90	60
84	82	102	119	95	110	90	60
83	81	101	117	94	109	90	60
82	80	101	115	94	108	89	60
81	78	100	113	93	107	89	60
80	77	100	112	93	106	89	59
79	76	99	110	92	104	88	59
78	75	99	108	92	103	87	59
77	73	98	107	91	102	87	58
76	72	97	105	91	101	86	58
75	71	96	103	90	100	85	57
74	70	96	102	89	99	84	57
73	69	95	100	89	98	84	57
72	68	94	99	88	97	83	56
71	67	94	98	88	96	82	56
70	66	93	96	87	95	81	56
69	65	93	94	86	94	80	55
68	64	92	93	86	92	79	55
67	63	91	91	85	91	79	55
66	62	91	89	84	90	78	54
65	61	90	88	84	88	77	54
64	60	89	86	83	87	76	53
63	59	89	85	82	86	75	53
62	58	88	83	82	84	74	53
61	57	87	82	81	83	73	52
60	56	86	80	80	81	71	52
59	55	86	79	79	80	70	51
58	54	85	77	78	79	69	51
57	53	84	75	77	77	68	50
56	52	83	74	76	76	67	50
55	51	83	72	75	74	65	49
54	50	82	71	74	73	64	49
53	49	81	70	73	71	63	48
52	48	81	68	72	70	62	48
51	47	80	67	71	68	60	47
50	47	79	66	70	67	59	47
49	46	78	64	69	66	58	46
48	45	77	63	68	64	56	45
47	44	76	61	67	62	55	45
46	43	75	60	66	61	54	44
45	42	75	58	65	60	52	43
44	41	74	57	64	58	51	42
43	40	73	56	62	57	50	42
42	39	72	54	61	56	49	41
41	39	71	53	60	55	47	41
40	38	70	52	59	53	46	40
39	37	69	51	58	52	45	39
38	36	68	49	57	51	44	38
37	35	67	48	56	50	42	38
36	34	66	47	54	48	41	37
35	34	65	46	53	47	40	36
34	33	64	44	52	46	39	35
33	32	63	43	50	45	37	35
32	31	61	42	49	43	36	34
31	30	60	41	47	42	35	33
30	29	58	39	46	41	33	32
29	28	56	38	44	39	32	31
28	27	55	37	42	38	31	30
27	26	53	36	40	36	29	29
26	25	50	35	38	35	28	27
25	24	48	34	37	34	27	26
24	23	46	33	35	32	26	25
23	23	44	32	33	31	24	24
22	22	41	30	31	30	23	22
21	21	39	29	29	29	22	21
20	20	36	28	28	27	21	20
19	19	33	27	26	26	20	19
18	18	31	26	25	25	29	18
17	17	28	24	23	23	18	16
16	16	25	23	21	21	17	15
15	15	23	21	20	19	16	13
14	14	21	19	18	17	14	12
13	13	20	17	17	16	13	11
12	12	18	16	16	14	12	10
11	11	17	15	15	13	11	9
10	10	16	14	13	12	9	8
9	9	14	13	12	10	8	8
8	8	13	12	11	9	7	7
7	8	12	11	10	7	6	6
6	7	10	10	9	6	5	5
5	6	9	9	8	5	3	5
4	5	8	8	7	3	3	4
3	4	6	7	6	2	2	3
2	3	5	6	5	1	1	3
1	2	4	5	4	1	1	3
Number of items							
85	85	102	122	95	112	90	60

Table 19–Grade 6: Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests

	VOCABULARY						
GMT 1964 Survey D Form 1M Vocabulary	CAT 1970 Level 4 Form A Vocabulary	CTBS 1968 Level 3 Form Q Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Green Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
50	40	40	46	50	48	42	30
49	39	40	45	50	46	42	30
48	37	39	44	50	45	42	30
47	36	38	42	49	44	41	30
46	35	36	41	48	43	41	30
45	34	35	40	48	42	40	29
44	33	34	39	47	41	39	29
43	32	33	38	46	39	38	28
42	31	31	36	45	38	37	28
41	30	30	35	44	36	36	27
40	28	28	33	43	35	35	27
39	27	27	32	42	33	33	26
38	26	26	31	41	31	32	26
37	25	24	29	39	30	31	25
36	24	23	28	38	28	29	25
35	22	21	26	36	26	27	24
34	21	20	25	34	24	25	23
33	20	18	23	33	23	24	23
32	18	17	22	31	21	22	22
31	17	16	20	30	20	21	21
30	16	15	19	28	19	19	20
29	15	14	18	27	18	18	20
28	14	13	17	25	17	17	19
27	13	13	16	24	16	15	18
26	12	12	15	22	15	14	17
25	12	11	14	21	14	13	16
24	11	11	14	20	13	13	15
23	10	10	13	19	13	12	15
22	10	10	13	18	12	11	14
21	9	9	12	17	11	11	13
20	9	9	12	16	11	11	13
19	8	8	11	15	10	10	12
18	8	8	11	15	10	10	11
17	7	8	10	14	9	9	11
16	7	7	10	13	9	9	10
15	6	7	9	12	8	8	9
14	6	6	9	12	8	8	9
13	5	6	8	11	7	7	8
12	5	5	7	10	6	7	7
11	4	5	7	9	5	6	6
10	4	4	6	8	5	6	6
9	3	4	5	7	4	5	5
8	3	3	5	6	4	4	4
7	2	3	4	5	3	3	4
6	2	2	4	4	3	3	3
5	1	2	3	3	2	2	2
4	1	1	3	2	2	1	1
3	0	1	2	1	1	1	1
2	0	0	1	1	1	0	1
1	0	0	1	0	1	0	0
Number of items 50	40	40	46	50	48	42	30

	READING COMPREHENSION						
GMT 1964 Survey D Form 1M Comprehension	CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 3 Form Q Comprehension	ITBS 1971 Level 12 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
52	40	42	68	44	61	47	30
51	37	39	62	42	58	45	29
50	35	37	58	41	56	43	28
49	32	36	54	40	53	41	27
48	30	34	51	39	50	39	26
47	28	32	48	37	48	37	25
46	27	31	45	36	45	35	24
45	25	29	42	35	43	34	24
44	24	28	40	34	41	32	23
43	23	27	38	33	39	30	22
42	22	26	36	31	38	29	21
41	21	25	34	30	36	27	20
40	20	24	32	29	34	25	19
39	19	23	31	28	33	24	18
38	19	22	29	27	31	23	18
37	18	21	28	26	30	22	17
36	17	20	27	25	29	21	16
35	17	19	26	24	28	20	16
34	16	19	25	23	27	19	15
33	16	18	24	22	26	18	14
32	16	17	24	21	26	18	14
31	15	17	23	21	24	17	14
30	15	16	22	20	24	16	13
29	14	16	22	19	23	16	13
28	14	15	21	19	22	15	12
27	14	15	21	18	21	15	12
26	13	14	20	17	21	14	11
25	13	14	20	17	20	14	11
24	13	14	19	16	20	14	11
23	13	13	19	16	19	13	10
22	12	13	19	15	19	13	10
21	12	12	18	14	18	12	9
20	12	12	18	14	18	12	9
19	11	12	17	13	17	12	9
18	11	11	17	13	16	11	8
17	11	11	16	12	16	11	8
16	10	10	16	12	15	10	7
15	10	10	15	11	15	10	7
14	10	10	15	11	14	9	7
13	9	9	14	10	13	9	6
12	9	9	13	10	13	9	6
11	8	8	12	9	12	8	5
10	8	8	11	8	11	7	5
9	7	7	10	8	10	7	4
8	7	7	9	7	9	6	4
7	6	6	8	6	8	5	3
6	5	5	6	5	7	4	3
5	5	4	5	4	6	4	2
4	4	3	4	4	4	3	2
3	3	2	3	3	3	2	1
2	3	1	2	2	2	1	1
1	2	1	1	1	1	1	0
Number of items 52	45	45	76	45	64	48	30

Table 19—Grade 6. Raw scores for the Gates-MacGinitie Reading Tests (GMT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

GMT 1964 Survey D Form 1M	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form D	ITBS 1971 Level 12 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
102	83	85	120	95	111	90	60
101	80	83	116	94	109	89	60
100	78	81	112	93	106	89	59
99	76	79	110	92	104	88	59
98	74	77	107	91	103	87	58
97	72	76	105	91	101	86	58
96	71	75	103	90	100	85	57
95	69	73	101	89	98	84	57
94	68	71	98	88	97	82	56
93	66	70	96	87	95	81	56
92	64	68	93	86	93	80	55
91	63	67	91	85	91	78	54
90	61	65	88	84	89	77	54
89	60	64	86	83	87	76	53
88	58	62	84	82	85	74	53
87	57	61	82	81	83	73	52
86	56	60	80	80	81	71	51
85	54	58	77	78	79	69	51
84	53	57	75	77	77	68	50
83	51	56	73	76	75	66	49
82	50	54	71	74	73	64	49
81	49	53	69	73	71	63	48
80	48	51	68	72	69	61	47
79	47	50	66	70	67	59	47
78	46	49	64	69	66	58	46
77	44	48	63	68	64	56	45
76	43	47	61	67	62	55	44
75	42	45	59	65	60	53	43
74	41	44	57	64	59	51	43
73	40	43	56	62	57	50	42
72	39	42	54	61	56	48	41
71	38	41	53	60	54	47	40
70	37	40	51	59	53	46	40
69	37	39	50	58	51	44	39
68	36	38	49	56	50	43	38
67	35	37	47	55	49	42	37
66	34	36	46	54	48	41	37
65	33	35	45	53	47	40	36
64	33	34	44	52	46	39	35
63	32	33	43	51	45	38	35
62	31	33	42	50	44	37	34
61	31	32	42	49	43	36	34
60	30	31	41	48	42	35	33
59	30	31	40	47	41	34	32
58	29	30	39	46	41	33	32
57	29	29	39	45	40	33	31
56	28	29	38	44	39	32	31
55	28	28	37	43	38	31	30
54	27	28	37	42	37	30	30
53	27	27	36	41	37	30	29
52	26	27	36	40	36	29	28
51	26	26	35	39	35	28	28
50	25	26	35	38	35	28	27
49	25	25	34	37	34	27	27
48	24	25	33	36	34	27	26
47	24	24	33	35	33	26	26
46	23	24	33	35	32	26	25
45	23	24	32	34	32	25	24
44	23	22	32	33	31	25	24
43	22	23	31	32	31	24	23
42	22	22	31	32	30	24	23
41	22	22	30	31	30	23	22
40	21	22	30	30	29	23	22
39	21	21	30	30	29	23	21
38	21	21	29	29	28	22	21
37	20	20	29	28	28	22	20
36	20	20	28	28	27	21	20
35	20	20	28	27	27	21	20
34	19	19	27	27	26	21	19
33	19	19	27	26	26	20	19
32	19	19	26	25	25	20	18
31	18	18	26	25	25	19	18
30	18	18	25	24	24	19	17
29	18	18	25	24	24	19	17
28	17	17	24	23	23	18	16
27	17	17	24	22	22	18	16
26	17	16	23	22	22	17	15
25	16	16	23	21	21	17	15
24	16	16	22	21	20	16	14
23	15	15	21	20	19	16	13
22	15	15	20	19	18	15	13
21	14	14	19	18	17	14	12
20	13	13	17	17	16	13	11
19	12	13	16	16	15	13	11
18	12	12	15	15	14	12	10
17	11	11	15	15	13	11	10
16	10	10	14	14	12	10	9
15	10	10	13	13	11	9	9
14	9	9	13	12	10	8	8
13	8	8	12	11	9	7	8
12	8	7	11	11	8	7	7
11	7	7	10	10	7	6	7
10	6	6	10	9	6	5	6
9	6	5	9	8	5	4	5
8	5	4	8	7	4	3	4
7	4	3	7	7	3	2	3
6	4	3	6	6	2	1	3
5	3	2	5	5	1	1	3
4	2	1	4	4	1	1	3
3	1	1	3	3	1	1	3
2	1	1	3	3	1	1	3
1	1	0	3	3	1	1	3
Number of items							
102	55	55	122	95	112	90	60

Table 20—Grade 6. Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

ITBS 1971 Level 12 Form 5 Vocabulary	CAT 1970 Level 4 Form A Vocabulary	CTBS 1968 Level 3 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Green Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
46	40	40	50	50	48	42	30
45	39	40	49	50	47	42	30
44	38	39	48	50	46	42	30
43	37	38	48	49	45	42	30
42	36	37	47	49	44	41	30
41	35	36	46	48	43	40	30
40	34	35	45	48	42	40	29
39	33	34	44	47	41	39	29
38	32	33	43	46	40	39	29
37	31	32	43	46	39	38	28
36	31	31	42	45	38	37	28
35	30	30	41	44	37	36	28
34	29	29	41	44	35	35	27
33	28	28	40	43	34	34	27
32	27	27	39	42	33	34	26
31	26	26	38	41	32	32	26
30	26	25	38	40	31	31	26
29	25	24	37	39	29	30	25
28	24	23	36	38	28	29	25
27	23	22	36	37	27	28	24
26	22	21	35	36	26	27	24
25	21	20	34	35	25	26	24
24	20	19	34	34	24	25	23
23	20	18	33	33	22	24	23
22	19	18	32	32	21	22	22
21	18	17	32	30	20	21	22
20	17	16	31	29	20	20	21
19	16	15	30	28	19	19	20
18	15	14	29	27	18	18	20
17	14	14	28	25	17	17	19
16	13	13	27	24	16	15	18
15	12	12	26	22	15	14	17
14	11	11	25	20	14	13	16
13	10	10	23	19	13	12	15
12	9	9	21	17	11	11	13
11	8	8	19	15	10	10	12
10	7	8	17	14	9	9	10
9	6	7	15	12	8	8	9
8	5	6	13	11	7	7	8
7	5	5	12	10	6	7	7
6	4	4	10	9	5	6	6
5	3	3	9	7	4	5	5
4	2	2	7	5	3	3	3
3	1	1	5	3	2	2	2
2	0	1	3	1	1	0	1
1	0	0	1	0	1	0	0
Number of items							
46	40	40	50	50	48	42	30

READING COMPREHENSION

ITBS 1971 Level 12 Form 5 Reading Comprehension	CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 3 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
76	45	45	52	45	64	48	30
75	44	45	52	45	64	48	30
74	44	45	52	45	63	48	30
73	43	44	52	45	63	48	30
72	43	44	52	45	63	48	30
71	42	43	52	45	62	48	30
70	42	43	52	44	62	48	30
69	41	42	52	44	61	47	30
68	41	42	52	44	61	47	30
67	40	41	52	44	60	47	30
66	39	41	52	43	60	47	29
65	39	41	52	43	59	46	29
64	38	40	51	43	59	46	29
63	37	40	51	43	58	45	29
62	37	39	51	42	58	45	29
61	36	39	51	42	57	45	28
60	36	38	50	42	57	44	28
59	35	38	50	41	56	44	28
58	34	37	50	41	55	43	28
57	34	37	50	41	55	43	27
56	33	36	50	40	54	42	27
55	33	36	49	40	53	42	27
54	32	35	49	40	53	41	27
53	31	35	49	39	52	40	27
52	31	34	48	39	51	40	26
51	30	34	48	39	50	39	26
50	30	33	48	38	49	39	26
49	29	33	48	38	49	38	26
48	29	32	47	38	48	38	25
47	28	32	47	37	47	37	25
46	28	31	47	37	47	36	25
45	27	31	46	36	46	36	25
44	27	31	46	36	45	35	24
43	26	30	45	35	44	34	24
42	25	29	45	35	43	34	24
41	25	29	45	34	42	33	23
40	24	28	44	34	41	32	23
39	24	28	44	33	40	31	22
38	23	27	43	33	39	30	22
37	22	27	42	32	38	29	22
36	22	26	42	31	37	28	21
35	21	26	42	31	37	28	21
34	21	25	41	30	36	27	20
33	20	24	40	30	35	26	20
32	20	24	40	29	34	25	19
31	19	23	39	28	33	24	19
30	19	22	39	27	32	23	18
29	18	22	38	27	31	23	18
28	18	21	37	26	30	22	17
27	17	20	36	25	29	21	16
26	17	19	35	24	28	20	15
25	16	19	34	23	27	19	15
24	16	18	33	22	26	18	14
23	15	17	31	21	25	17	14
22	15	16	30	20	23	16	13

Table 20—Grade 6. Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

ITBS 1971 Level 12 Form 5 Reading Comprehension	CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 3 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	MAT 1970 Inter Form F Reading	SAT 1964 Inter II Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
21	14	15	28	18	22	15	12
20	13	14	26	17	21	14	11
19	13	13	23	16	19	13	10
18	12	12	21	14	18	12	9
17	11	12	19	13	17	11	9
16	11	11	17	12	16	11	8
15	10	10	15	11	15	10	7
14	9	9	13	10	13	9	6
13	9	9	12	9	12	8	6
12	8	8	11	9	11	8	5
11	8	8	10	8	11	7	5
10	7	7	9	8	10	6	4
9	7	7	8	7	9	6	4
8	6	6	7	7	8	5	4
7	6	5	7	6	7	5	3
6	5	5	6	5	6	4	3
5	5	4	5	4	5	3	2
4	4	3	4	3	4	3	2
3	3	2	3	3	3	2	1
2	3	1	2	2	2	1	1
1	2	1	1	1	1	1	0
Number of items 76	45	48	57	45	64	48	30

Table 20–Grade 6: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971 Level 12 Form S	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA-ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
122	85	85	102	95	112	90	60
121	84	85	102	95	112	90	60
120	83	85	102	95	111	90	60
119	82	84	102	95	110	90	60
118	82	84	102	95	110	90	60
117	81	83	101	94	109	90	60
116	80	83	101	94	109	89	60
115	80	82	101	94	108	89	60
114	79	81	101	94	107	89	60
113	78	81	100	93	107	89	60
112	77	80	100	93	106	89	59
111	77	80	100	93	105	88	59
110	76	79	99	92	105	88	59
109	75	79	99	92	104	88	59
108	74	78	98	92	103	87	59
107	74	77	98	91	102	87	58
106	73	77	98	91	102	86	58
105	72	76	97	91	101	86	58
104	71	76	97	90	100	86	58
103	71	75	96	90	100	85	57
102	70	74	96	89	99	85	57
101	69	74	95	89	99	84	57
100	69	73	95	89	98	83	57
99	68	72	94	88	97	83	56
98	68	71	94	88	97	82	56
97	67	71	94	88	96	82	56
96	66	70	93	87	95	81	56
95	66	70	93	87	94	81	56
94	65	69	92	86	94	80	55
93	64	68	92	86	93	80	55
92	64	68	92	86	92	79	55
91	63	67	91	85	91	79	55
90	62	67	91	85	90	78	54
89	62	66	90	84	89	77	54
88	61	65	90	84	89	77	54
87	60	64	90	83	88	76	54
86	60	64	89	83	87	76	53
85	59	63	89	82	86	75	53
84	58	63	88	82	85	74	53
83	58	62	88	81	84	74	53
82	57	61	87	81	83	73	52
81	57	61	87	80	82	72	52
80	56	60	86	80	81	71	52
79	55	59	86	79	81	71	51
78	55	59	85	79	80	70	51
77	54	58	85	78	79	69	51
76	53	58	84	78	78	68	50
75	53	57	84	77	77	68	50
74	52	56	84	76	76	67	50
73	51	56	83	76	75	66	49
72	51	55	83	75	74	65	49
71	50	54	82	74	73	64	49
70	49	53	81	73	72	63	48
69	49	53	81	73	71	62	48
68	48	52	80	72	69	61	48

ITBS 1971 Level 12 Form S	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA-ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
67	47	51	80	71	68	60	47
66	47	50	79	70	67	59	47
65	46	50	79	70	66	59	46
64	46	49	78	69	65	58	46
63	45	48	77	68	64	57	45
62	44	48	77	68	63	56	45
61	44	47	76	67	62	55	45
60	43	46	76	66	61	54	44
59	42	46	75	65	60	53	43
58	42	45	75	64	59	52	43
57	41	44	74	64	58	51	42
56	40	43	73	63	57	50	42
55	40	43	73	62	56	49	41
54	39	42	72	61	55	48	41
53	39	41	71	60	54	47	40
52	38	40	71	59	53	46	40
51	37	39	70	58	52	45	39
50	37	39	69	57	51	44	39
49	36	38	68	57	50	43	38
48	35	37	68	56	49	42	38
47	35	36	67	55	49	41	37
46	34	35	66	54	48	40	37
45	33	35	65	52	47	39	36
44	32	34	64	51	46	38	35
43	32	33	63	50	45	37	35
42	31	32	62	49	44	36	34
41	30	31	60	48	42	35	33
40	30	31	59	47	41	34	32
39	29	30	58	45	40	33	32
38	28	29	56	44	39	32	31
37	27	28	55	42	38	31	30
36	26	27	53	41	37	30	29
35	26	26	51	39	36	28	28
34	25	25	49	37	34	27	27
33	24	24	47	36	33	26	26
32	23	23	45	34	32	25	24
31	22	23	43	32	31	24	23
30	22	22	40	31	29	23	22
29	21	21	38	29	28	22	21
28	20	20	36	28	27	21	20
27	19	19	33	26	26	20	19
26	19	18	31	25	25	20	18
25	18	18	29	24	24	19	17
24	17	17	27	23	23	18	16
23	17	16	26	22	21	17	15
22	16	16	24	21	20	16	14
21	15	15	23	20	19	16	13
20	15	15	22	19	18	15	13
19	14	14	21	18	18	15	12
18	14	14	21	18	17	14	12
17	13	13	20	17	16	13	11
16	12	12	19	16	15	12	10
15	11	11	17	15	13	11	10
14	10	10	16	14	12	10	9
13	10	9	14	13	10	9	8

Table 20—Grade 6: Raw scores for the Iowa Tests of Basic Skills (ITBS), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

ITBS 1971 Level 12 Form 5	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
12	9	8	13	11	9	7	7
11	8	7	12	10	8	6	6
10	7	6	10	9	6	5	6
9	6	5	9	8	5	4	5
8	5	4	8	7	4	3	4
7	4	3	7	6	2	1	3
6	3	2	6	5	1	0	3
5	2	1	5	4	0	0	2
4	1	1	4	3	0	0	2
3	1	1	3	2	0	0	1
2	1	1	3	0	0	0	1
1	0	0	3	0	0	0	1
Number of items							
122	85	85	102	95	112	90	60

Table 21—Grade 6: Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

MAT 1970 Inter. Form F Word Knowledge	CAT 1970 Level 4 Form A Vocabulary	CTBS 1968 Level 3 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 12 Form 5 Vocabulary	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Green Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
50	38	39	49	44	46	42	30
49	36	37	47	42	44	41	30
48	35	36	46	41	42	40	29
47	33	34	44	39	41	39	29
46	32	33	43	37	39	38	28
45	31	31	42	36	38	37	28
44	29	30	41	35	36	36	27
43	28	28	40	33	35	35	27
42	27	27	39	32	33	34	26
41	27	26	38	31	32	33	26
40	26	25	38	30	31	31	26
39	25	24	37	29	29	30	25
38	24	23	36	28	28	29	25
37	23	22	36	27	27	28	24
36	22	21	35	26	26	27	24
35	21	20	34	25	25	26	24
34	21	20	34	24	24	25	23
33	20	19	33	23	23	24	23
32	19	18	33	22	22	23	22
31	18	17	32	22	21	22	22
30	17	17	31	21	20	21	21
29	17	16	31	20	20	20	21
28	16	15	30	19	19	19	20
27	15	15	29	18	18	18	20
26	15	14	29	17	17	17	19
25	14	13	28	17	17	17	19
24	13	13	27	16	16	16	18
23	13	12	27	16	15	15	18
22	12	12	26	15	15	14	17
21	12	11	25	15	14	14	16
20	11	11	24	14	14	13	16
19	11	10	23	13	13	12	15
18	10	10	23	13	12	12	14
17	10	9	21	12	12	11	13
16	9	9	20	12	11	11	12
15	8	8	19	11	10	10	12
14	8	8	17	10	9	9	11
13	7	7	16	10	9	9	10
12	6	7	15	9	8	8	9
11	6	6	13	8	7	8	8
10	5	5	12	7	6	7	7
9	4	5	11	6	6	6	6
8	3	4	10	6	5	6	6
7	3	3	9	5	4	5	5
6	2	3	8	5	4	4	4
5	2	3	7	4	3	3	4
4	2	2	6	4	3	3	3
3	1	2	5	3	2	2	2
2	1	1	4	3	2	1	2
1	0	1	3	2	1	1	1
Number of items							
50	40	40	50	46	48	42	30

READING COMPREHENSION

MAT 1970 Inter. Form F Reading	CAT 1970 Level 4 Form A Comprehension	CTBS 1968 Level 3 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 12 Form 5 Reading Comprehension	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
45	43	44	52	74	63	48	30
44	41	42	52	68	61	47	30
43	39	40	52	65	59	46	29
42	38	39	51	61	57	45	28
41	35	37	50	58	56	43	28
40	33	36	49	55	54	42	27
39	31	34	48	52	51	40	26
38	29	33	48	50	49	38	26
37	28	32	47	47	47	37	25
36	27	31	46	44	45	35	24
35	25	30	45	42	44	34	24
34	24	29	44	41	42	32	23
33	23	28	43	39	40	31	22
32	23	27	43	37	39	29	22
31	22	26	42	36	37	28	21
30	21	25	41	34	36	27	20
29	20	24	40	32	34	25	19
28	19	23	39	31	33	24	19
27	19	22	38	30	32	23	18
26	18	21	37	28	30	22	17
25	17	20	36	27	29	21	16
24	17	19	35	26	28	20	16
23	16	19	34	25	27	19	15
22	16	18	33	24	26	18	14
21	15	17	32	23	25	17	14
20	15	16	30	22	24	16	13
19	14	16	29	22	23	16	12
18	14	15	27	21	22	15	12
17	13	14	26	20	20	14	11
16	13	14	24	19	20	14	10
15	12	13	22	19	19	13	10
14	12	12	20	18	18	12	9
13	11	11	19	17	17	11	8
12	11	11	17	16	16	11	8
11	10	10	15	15	14	10	7
10	9	9	13	14	13	9	6
9	9	8	11	13	12	8	5
8	8	8	10	11	11	7	5
7	7	7	8	9	9	6	4
6	6	6	7	7	8	5	3
5	5	5	6	6	6	4	3
4	4	4	5	5	5	3	2
3	4	3	3	4	4	2	1
2	3	2	2	2	2	1	1
1	2	1	1	1	1	1	0
Number of items							
45	45	45	52	76	64	48	30

Table 21–Grade 6. Raw scores for the Metropolitan Achievement Tests (MAT), 1970 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

MAT 1970 Inter. Form F	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
95	83	85	102	120	111	90	60
94	80	82	101	116	108	89	60
93	77	80	100	112	106	89	59
92	75	79	99	109	104	88	59
91	73	77	98	106	102	87	58
90	71	75	96	104	100	85	58
89	69	74	95	101	99	84	57
88	68	72	94	98	97	83	56
87	66	70	93	96	95	81	56
86	65	69	92	93	93	80	55
85	63	67	91	91	91	79	55
84	62	66	90	89	89	77	54
83	60	64	89	87	87	76	53
82	59	63	88	85	85	75	52
81	57	61	87	82	83	73	52
80	56	60	86	80	82	71	52
79	55	59	86	78	80	70	51
78	54	58	85	77	78	69	51
77	53	57	84	75	77	68	50
76	52	56	83	74	75	66	50
75	51	55	83	72	74	65	49
74	50	54	82	71	73	64	49
73	49	53	81	70	71	63	48
72	48	52	80	68	70	61	48
71	47	51	80	67	68	60	47
70	46	50	79	65	67	59	46
69	45	49	78	64	65	58	46
68	45	48	77	63	64	56	45
67	44	47	76	61	62	55	45
66	43	46	76	60	61	54	44
65	42	45	75	59	60	53	43
64	41	44	74	58	59	51	43
63	41	44	74	56	58	50	42
62	40	43	73	55	56	49	41
61	39	42	72	54	55	48	41
60	38	41	71	53	54	47	40
59	38	40	70	52	53	46	40
58	37	39	69	51	52	45	39
57	36	38	69	50	51	44	39
56	36	37	68	48	50	43	38
55	35	37	67	47	49	42	37
54	34	36	66	46	48	41	37
53	34	35	65	46	47	40	36
52	33	34	64	45	46	39	36
51	32	34	63	44	45	38	35
50	32	33	63	43	44	37	34
49	31	32	61	42	44	36	34
48	30	32	60	41	43	35	33
47	30	31	59	40	42	35	33
46	29	30	58	40	41	34	32

MAT 1970 Inter. Form F	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
45	29	30	57	39	40	33	32
44	28	29	56	38	39	32	31
43	28	29	55	38	39	31	30
42	27	28	54	37	38	31	30
41	27	28	53	36	37	30	29
40	26	27	52	36	36	29	29
39	26	26	51	35	36	29	28
38	25	26	50	35	35	28	27
37	25	25	49	34	34	27	27
36	24	25	48	33	33	27	26
35	24	24	47	33	33	26	25
34	23	24	45	32	32	25	25
33	23	23	44	32	31	25	24
32	22	23	43	31	31	24	23
31	22	22	41	30	30	23	22
30	21	21	40	30	29	23	22
29	21	21	38	29	28	22	21
28	20	20	36	28	28	22	20
27	20	20	35	28	27	21	19
26	19	19	33	27	26	20	19
25	19	18	31	26	25	20	18
24	18	18	30	25	24	19	17
23	17	17	28	24	23	18	16
22	17	16	26	23	22	17	15
21	16	16	25	22	20	17	14
20	15	15	23	21	19	16	13
19	15	15	22	20	18	15	13
18	14	14	21	19	17	14	12
17	13	13	20	17	16	13	11
16	12	12	19	16	15	12	11
15	12	11	17	15	14	11	10
14	11	11	16	14	12	10	9
13	10	10	15	13	11	9	8
12	9	9	14	13	10	8	7
11	8	8	12	12	9	7	7
10	7	7	11	11	7	6	6
9	7	6	10	10	6	5	6
8	6	5	9	9	5	4	4
7	5	4	7	8	4	3	4
6	4	3	6	7	2	2	3
5	3	2	5	6	1	1	3
4	3	1	4	5	0	0	2
3	2	1	4	4	0	0	1
2	1	1	4	3	0	0	1
1	1	1	4	3	0	0	1
Number of items							
95	85	85	102	122	112	90	60

Table 22–Grade 6: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SAT 1964 Intermediate II Form W Word Meaning	CAT 1970 Level 4 Form A Vocabulary	CTBS 1968 Level 3 Form Q Vocabulary	GMT 1964 Survey D Form 1W Vocabulary	ITBS 1971 Level 12 Form 5 Vocabulary	MAT 1970 Intermediate Form F Word Knowledge	SRA ACH 1971 Green Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
Raw score	Equivalent raw score						
49	40	40	50	46	50	42	30
47	39	40	50	45	50	42	30
46	38	39	49	44	50	42	30
45	37	39	48	43	50	42	30
44	36	38	47	42	49	41	30
43	35	37	46	41	49	41	30
42	34	36	45	40	48	40	29
41	33	34	44	39	47	39	29
40	32	33	44	38	47	39	29
39	32	32	43	37	46	38	28
38	31	32	42	36	45	37	28
37	30	31	42	35	45	37	28
36	29	30	41	35	44	36	27
35	29	29	40	34	43	35	27
34	28	28	40	33	43	34	27
33	27	27	39	32	42	34	26
32	27	26	39	31	41	33	26
31	26	26	38	30	40	32	26
30	25	25	37	30	40	31	25
29	25	24	37	29	39	30	25
28	24	23	36	28	38	29	25
27	23	22	36	27	37	28	24
26	22	21	35	26	36	27	24
25	22	21	35	25	35	26	24
24	21	20	34	25	34	25	23
23	20	19	33	24	33	24	23
22	19	18	33	23	32	23	22
21	18	17	32	22	31	22	22
20	17	16	31	21	30	21	21
19	16	15	30	19	28	19	21
18	15	15	29	18	27	18	20
17	14	14	28	17	26	17	19
16	13	13	27	16	24	16	18
15	13	12	26	15	23	14	17
14	12	11	25	14	21	13	16
13	11	10	24	13	19	12	15
12	10	10	22	13	18	11	14
11	9	9	20	12	16	11	13
10	8	8	19	11	15	10	11
9	7	8	17	10	14	9	10
8	6	7	15	9	12	8	9
7	5	6	13	8	11	7	8
6	5	5	12	7	10	7	7
5	4	4	10	6	9	6	6
4	3	3	9	5	7	5	5
3	2	2	7	4	5	3	3
2	1	1	5	3	3	2	2
1	0	1	3	2	1	1	1
Number of items 49	40	40	50	46	50	42	30

READING COMPREHENSION

SAT 1964 Intermediate II Form W Paragraph Meaning	CAT 1970 Level 4 Form A Complete Test	CTBS 1968 Level 3 Form Q Complete Test	GMT 1964 Survey D Form 1W Complete Test	ITBS 1971 Level 12 Form 5 Reading Complete Test	MAT 1970 Intermediate Form F Reading	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Equivalent raw score						
64	44	45	52	75	45	48	30
63	43	44	52	73	45	48	30
62	42	43	52	71	45	48	30
61	41	42	52	69	44	47	30
60	40	41	52	67	44	47	30
59	38	40	51	65	43	46	29
58	37	39	51	63	42	45	29
57	36	38	51	61	42	44	28
56	35	38	50	59	41	44	28
55	34	37	50	58	41	43	28
54	33	36	49	56	40	42	27
53	32	36	49	55	40	41	27
52	31	35	49	53	39	41	27
51	31	34	48	52	39	40	26
50	30	34	48	51	38	39	26
49	29	33	48	49	38	38	26
48	29	32	47	48	38	38	25
47	28	32	47	47	37	37	25
46	27	31	46	45	37	36	25
45	27	31	46	44	36	35	24
44	26	30	45	43	35	34	24
43	25	29	45	42	35	33	24
42	25	29	44	41	34	33	23
41	24	28	44	40	34	32	23
40	23	28	43	39	33	31	22
39	23	27	43	38	32	30	22
38	22	26	42	37	32	29	21
37	22	26	42	36	31	28	21
36	21	25	41	34	30	27	20
35	21	25	41	33	30	26	20
34	20	24	40	32	29	25	19
33	19	23	39	31	28	24	19
32	19	22	39	30	27	23	18
31	18	22	38	29	27	23	18
30	18	21	37	28	26	22	17
29	17	20	36	27	25	21	16
28	17	19	35	26	24	20	16
27	16	19	34	25	23	19	15
26	16	18	33	24	22	18	14
25	16	17	32	23	21	17	14
24	15	17	31	23	20	17	13
23	15	16	29	22	19	16	13
22	14	15	28	21	18	15	12
21	14	15	27	20	18	15	11
20	13	14	25	20	17	14	11
19	12	13	23	19	15	13	10
18	12	12	21	18	14	12	9
17	11	12	19	17	13	12	9
16	11	11	18	16	12	11	8
15	10	10	16	15	12	10	7
14	10	10	14	15	11	9	7
13	9	9	13	14	10	9	6
12	9	8	11	13	9	8	5
11	8	8	10	12	8	7	5
10	7	7	9	10	8	7	4

Table 22–Grade 6: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

READING COMPREHENSION

SAT 1964 Intermediate II Form W Paragraph Meaning	CAT 1970 Level 4 Form A Complete Battery	CTBS 1968 Level 3 Form Q Complete Battery	GMT 1964 Survey D1 Form 1W Complete Battery	ITBS 1971 Level 12 Form 5 Reading Comp. Battery	MAT 1970 Intermediate Form F Reading	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part
Raw score	Equivalent raw score						
9	7	7	8	8	7	6	4
8	6	6	7	8	6	5	3
7	6	5	6	7	6	5	3
6	5	4	5	6	5	4	3
5	5	4	5	5	4	3	2
4	4	3	4	4	3	3	2
3	3	2	3	3	3	2	1
2	3	2	2	2	2	1	1
1	2	1	1	1	1	1	1
Number of items 64	45	45	52	70	45	48	30

Table 22—Grade 6. Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SAT 1964 Inter. II Form W	CAT 1970 Level A Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter. Form F	SRA ACH 1971 Green Level Form E	STEP II 1969 Level A Form A
Raw score	Equivalent raw score						
112	84	85	102	122	95	90	60
111	83	85	102	120	95	90	60
110	82	84	102	119	95	90	60
109	81	83	101	117	94	90	60
108	80	82	101	115	94	89	60
107	79	81	100	114	94	89	60
106	78	80	100	112	93	89	59
105	76	80	100	111	93	88	59
104	75	79	99	109	92	88	59
103	74	78	98	108	92	87	59
102	73	77	98	107	91	87	58
101	72	76	97	105	91	86	58
100	71	75	96	104	90	85	57
99	70	74	96	102	89	84	57
98	69	73	95	100	89	84	57
97	68	72	94	99	88	83	56
96	67	71	94	97	88	82	56
95	66	70	93	96	87	81	56
94	65	69	93	95	87	81	55
93	65	69	92	93	86	80	55
92	64	68	92	92	86	79	55
91	63	67	91	91	85	79	55
90	62	66	91	90	85	78	54
89	62	66	90	89	84	77	54
88	61	65	90	88	84	77	54
87	60	64	89	86	83	76	53
86	59	63	89	85	82	75	53
85	59	63	88	84	82	74	53
84	58	62	88	83	81	74	53
83	57	61	87	82	81	73	52
82	56	60	87	81	80	72	52
81	56	60	86	80	80	71	52
80	55	59	86	78	79	70	51
79	54	58	85	77	78	69	51
78	53	58	85	76	78	69	51
77	53	57	84	75	77	68	50
76	52	56	84	74	76	67	50
75	51	56	83	73	76	66	49
74	51	55	83	72	75	65	49
73	50	54	82	71	74	64	49
72	50	54	82	70	74	64	48
71	49	53	81	69	73	63	48
70	48	52	81	68	72	62	48
69	48	52	80	68	72	61	47
68	47	51	80	67	71	60	47
67	47	50	79	66	70	59	47
66	46	49	78	65	70	58	46
65	45	49	78	64	69	57	46
64	45	48	77	63	68	56	45
63	44	48	77	62	68	56	45
62	44	47	76	61	67	55	44
61	43	46	76	60	66	54	44
60	42	45	75	59	65	53	43
59	42	45	74	58	64	52	43
58	41	44	74	57	63	51	42

SAT 1964 Inter. II Form W	CAT 1970 Level A Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter. Form F	SRA ACH 1971 Green Level Form E	STEP II 1969 Level A Form A
Raw score	Equivalent raw score						
57	40	43	73	56	63	50	42
56	40	42	72	55	62	49	41
55	39	41	72	54	61	48	41
54	38	41	71	53	60	47	40
53	38	40	70	52	59	46	40
52	37	39	70	51	58	45	39
51	36	38	69	50	57	44	39
50	36	37	68	49	56	43	38
49	35	37	67	48	55	42	37
48	34	36	66	46	54	41	37
47	33	35	65	45	53	40	36
46	33	34	64	44	52	39	36
45	32	33	63	43	51	38	35
44	31	33	62	42	50	37	34
43	31	32	61	42	48	36	34
42	30	31	60	41	47	35	33
41	29	30	59	40	46	34	32
40	29	30	57	39	45	33	32
39	28	29	56	38	44	32	31
38	27	28	55	37	42	31	30
37	27	28	53	36	41	30	29
36	26	27	52	35	40	29	28
35	25	26	50	35	38	28	27
34	25	25	49	34	37	27	27
33	24	25	47	33	36	26	26
32	23	24	45	32	34	25	25
31	23	23	44	31	33	24	24
30	22	22	42	31	31	24	23
29	21	21	40	30	30	23	22
28	21	21	37	29	29	22	21
27	20	20	35	28	27	21	20
26	19	19	33	27	26	20	19
25	19	18	31	26	25	20	18
24	18	18	30	25	24	19	17
23	18	17	28	24	23	18	16
22	17	17	27	24	22	18	15
21	16	16	25	23	22	17	15
20	16	16	24	22	21	16	14
19	15	15	23	21	20	16	13
18	15	15	22	20	19	15	13
17	14	14	21	18	18	14	12
16	13	13	20	17	17	13	11
15	12	13	19	16	16	13	11
14	12	12	18	16	15	12	10
13	11	11	17	15	15	11	9
12	11	10	16	14	14	10	9
11	10	10	15	14	13	9	8
10	9	9	14	13	12	8	8
9	9	8	13	12	11	7	7
8	8	7	12	11	11	6	7
7	7	7	11	11	10	6	6
6	7	6	10	10	9	5	5
5	6	5	9	9	8	4	4
4	5	4	8	8	7	3	3
3	5	4	7	8	7	2	3

Table 22–Grade 6: Raw scores for the Stanford Achievement Tests (SAT), 1964 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SAT 1964 Inter. II Form W	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form S	MAT 1970 Inter. Form F	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
2	4	3	6	7	6	1	2
1	3	2	5	6	5	1	2
Number of items							
112	85	85	102	122	95	90	60

Table 23—Grade 6: Raw scores for the SRA Achievement Series (SRA ACH), 1971 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

SRA ACH 1971	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	STEP II 1969
Raw score	Equivalent raw scores						
42	39	39	45	44	50	46	30
41	36	37	47	42	49	44	30
40	34	35	45	40	48	42	29
39	33	34	44	39	47	41	28
38	32	32	43	37	46	39	28
37	31	31	42	36	45	38	28
36	30	30	41	35	44	36	27
35	29	29	40	34	43	35	27
34	28	28	40	33	42	34	27
33	27	27	39	32	41	33	26
32	26	26	38	31	41	31	26
31	25	25	37	30	40	30	25
30	25	24	37	29	39	29	25
29	24	23	36	28	38	28	25
28	23	22	36	27	37	27	24
27	22	21	35	26	36	26	24
26	21	20	34	25	35	25	24
25	21	20	34	24	34	24	23
24	20	19	33	23	33	23	23
23	19	18	33	23	32	22	22
22	18	17	32	22	31	21	22
21	17	17	31	21	30	20	21
20	17	16	31	20	29	20	21
19	16	15	30	19	28	19	20
18	15	15	29	18	27	18	20
17	14	14	28	17	26	17	19
16	14	13	28	17	24	16	18
15	13	12	27	16	23	16	18
14	12	12	26	15	22	15	17
13	11	11	25	14	20	14	16
12	10	10	23	13	19	13	15
11	9	9	21	12	17	12	13
10	8	8	19	11	15	10	12
9	7	7	17	10	14	9	10
8	6	6	15	9	12	8	9
7	5	5	12	8	10	7	8
6	4	4	11	6	9	5	6
5	3	3	9	5	7	4	5
4	2	3	8	5	6	4	4
3	2	2	6	4	4	3	3
2	1	1	5	3	3	2	2
1	1	1	4	3	2	1	1
Number of items							
42	40	40	50	46	50	48	30

READING COMPREHENSION

SRA ACH 1971	CAT 1970	CTBS 1968	GMT 1964	ITBS 1971	MAT 1970	SAT 1964	STEP II 1969
Raw score	Equivalent raw scores						
48	43	44	52	73	75	63	30
47	40	42	52	68	64	61	30
46	38	40	52	65	63	59	29
45	37	39	51	62	62	58	29
44	36	38	51	60	62	57	28
43	34	37	50	58	61	55	28
42	33	36	49	56	60	54	27
41	32	35	49	54	60	53	27
40	31	34	48	52	59	51	26
39	30	34	48	51	58	50	26
38	29	33	48	49	58	49	26
37	28	32	47	47	57	47	25
36	27	31	46	46	57	46	25
35	27	31	46	44	56	45	24
34	26	30	45	43	55	44	24
33	25	29	45	41	55	43	23
32	25	28	44	40	54	41	23
31	24	28	44	39	53	40	22
30	23	27	43	38	53	39	22
29	22	27	42	37	52	38	21
28	22	26	42	36	51	37	21
27	21	25	41	34	50	36	20
26	20	24	41	33	50	35	20
25	20	24	40	32	49	34	19
24	19	23	39	31	48	33	19
23	19	22	38	30	47	32	18
22	18	21	37	29	46	30	17
21	18	20	37	27	45	29	17
20	17	20	35	26	44	28	16
19	17	19	34	25	43	27	15
18	16	18	33	24	42	26	14
17	15	17	31	23	41	25	14
16	15	16	29	22	40	23	13
15	14	15	27	21	38	22	12
14	13	14	25	20	37	20	11
13	12	13	23	19	35	19	10
12	12	12	20	18	34	18	9
11	11	11	18	17	33	16	8
10	10	10	16	15	31	15	7
9	9	9	13	14	30	14	6
8	9	8	11	13	29	12	5
7	8	8	10	11	28	11	5
6	7	7	8	9	27	9	4
5	6	6	7	7	26	8	3
4	5	5	6	6	25	6	3
3	4	3	4	5	24	5	2
2	3	2	3	3	23	3	1
1	2	1	2	2	22	2	1
Number of items							
48	45	45	52	76	45	64	30

Table 23—Grade 6. Raw scores for the SRA Achievement Series (SRA ACH), 1971 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

SRA ACH 1971 Green Level Form X	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 3W	ITBS 1971 Level 12 Form 5	MAT 1970 Intermediate Form F	SAT 1964 Intermediate II Form W	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
90	82	94	102	119	95	111	60
89	79	82	101	114	94	107	60
88	76	79	99	110	92	104	59
87	74	76	98	107	91	103	58
86	72	76	97	105	91	101	58
85	71	75	96	103	90	99	57
84	70	74	95	101	89	98	57
83	68	72	95	99	88	97	56
82	67	71	94	97	88	96	56
81	66	70	93	95	87	95	56
80	65	69	92	94	86	93	55
79	64	68	92	92	85	92	55
78	62	66	91	90	85	90	54
77	61	65	90	88	84	89	54
76	60	64	89	87	83	87	53
75	59	63	89	85	82	86	53
74	58	62	88	84	82	85	53
73	57	61	87	82	81	83	52
72	57	61	87	81	80	82	52
71	56	60	86	80	80	81	52
70	55	59	86	78	79	80	51
69	54	58	85	77	78	79	51
68	53	57	84	76	77	77	50
67	52	56	84	74	77	76	50
66	52	56	83	73	76	75	50
65	51	55	83	72	75	74	49
64	50	54	82	71	74	73	49
63	49	53	81	70	73	71	48
62	49	52	81	69	73	70	48
61	48	52	80	68	72	69	47
60	47	51	80	67	71	68	47
59	47	50	79	66	70	67	47
58	46	49	78	65	69	66	46
57	45	49	78	63	69	65	46
56	44	48	77	62	68	64	45
55	44	47	76	61	67	62	45
54	43	46	76	60	66	61	44
53	42	46	75	59	65	60	44
52	42	45	75	58	65	59	43
51	41	44	74	57	64	58	43
50	40	43	73	56	63	57	42
49	40	42	73	55	62	56	41
48	39	42	72	54	61	55	41
47	38	41	71	53	60	54	40
46	38	40	70	52	59	53	40
45	37	39	70	51	58	52	39
44	36	38	69	50	57	51	39
43	36	38	68	49	56	50	38
42	35	37	67	48	55	49	38
41	34	36	66	47	54	48	37

SRA ACH 1971 Green Level Form X	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 3W	ITBS 1971 Level 12 Form 5	MAT 1970 Intermediate Form F	SAT 1964 Intermediate II Form W	STEP II 1969 Level 4 Form A
Raw score	Equivalent raw score						
40	34	35	65	46	53	47	36
39	32	34	64	45	52	46	36
38	32	34	63	44	51	45	35
37	32	33	62	43	50	44	34
36	31	32	61	42	49	43	34
35	30	31	60	41	48	42	33
34	30	31	59	40	46	41	32
33	29	30	58	39	45	40	32
32	28	29	56	38	44	39	31
31	28	28	55	37	43	38	30
30	27	28	54	36	41	37	29
29	26	27	52	36	40	36	28
28	25	26	50	35	38	35	27
27	25	25	49	34	37	34	26
26	24	24	47	33	35	33	25
25	23	24	45	32	34	32	24
24	22	23	43	31	32	31	23
23	21	22	40	30	30	29	22
22	21	21	38	29	29	28	21
21	20	20	35	28	27	27	19
20	19	19	32	27	26	26	18
19	18	18	30	25	24	24	17
18	17	17	27	24	23	23	16
17	16	16	26	23	22	21	15
16	15	15	24	22	20	20	14
15	15	15	22	20	19	18	13
14	14	14	21	18	18	17	12
13	13	13	19	17	17	16	11
12	12	12	18	16	16	14	10
11	11	11	17	15	15	13	10
10	11	10	16	14	14	12	9
9	10	10	15	13	13	11	8
8	9	9	14	13	12	10	7
7	8	8	12	12	11	9	7
6	8	7	11	11	10	8	6
5	7	6	10	10	9	6	5
4	6	5	9	9	8	5	4
3	5	4	8	8	7	4	3
2	5	3	7	8	6	3	2
1	4	2	6	7	5	2	2
Number of items							
90	85	85	102	122	95	112	60

Table 24—Grade 6: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests

VOCABULARY

STEP II 1969 Level 4 Form 4A Part 1	CAT 1970 Level A Form A Vocabulary	CTBS 1968 Level J Form G Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 12 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Green Level Form E Vocabulary
Raw score	Equivalent raw score						
30	36	38	47	40	49	44	41
29	34	35	45	40	47	41	40
28	31	32	42	37	46	38	38
27	29	29	40	34	43	35	35
26	26	26	38	31	41	32	33
25	24	24	37	29	39	29	30
24	22	21	35	26	36	26	27
23	21	19	34	24	34	24	25
22	19	18	32	22	32	22	23
21	17	16	31	20	30	20	20
20	16	15	30	19	28	18	19
19	14	14	29	17	26	17	17
18	13	13	27	16	24	16	16
17	12	12	26	15	22	15	14
16	11	11	25	14	21	14	13
15	11	10	24	13	19	13	12
14	10	10	22	13	18	12	12
13	9	9	21	12	17	11	11
12	9	9	19	11	16	11	10
11	8	8	18	11	14	10	10
10	7	7	16	10	13	9	9
9	7	7	15	9	12	8	8
8	6	6	13	8	11	7	7
7	5	5	12	7	10	6	7
6	4	4	11	6	9	5	6
5	3	4	9	5	7	4	5
4	2	3	8	4	6	3	4
3	2	2	6	4	4	3	3
2	1	1	5	3	3	2	2
1	0	1	3	2	1	1	1
Number of items							
30	40	40	50	46	50	48	42

READING COMPREHENSION

STEP II 1969 Level 4 Form 4A Part 2	CAT 1970 Level A Form A Comprehension	CTBS 1968 Level J Form G Comprehension	GMT 1964 Survey D Form 1M Comprehension	ITBS 1971 Level 12 Form 5 Reading Comprehension	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading
Raw score	Equivalent raw score						
30	41	42	52	69	44	61	47
29	38	40	51	68	43	59	46
28	35	38	50	60	42	57	44
27	33	36	49	55	40	56	42
26	30	34	48	51	39	50	39
25	28	32	47	47	37	47	37
24	25	30	46	43	36	44	35
23	24	29	44	41	34	42	32
22	23	27	43	38	33	39	30
21	22	26	42	36	31	37	28
20	21	25	41	34	30	36	27
19	20	24	40	32	29	34	25
18	19	22	39	30	27	32	23
17	18	21	37	28	26	30	22
16	17	20	36	27	25	29	20
15	16	19	34	25	23	27	19
14	16	18	32	24	22	25	17
13	15	16	30	22	20	24	16
12	14	15	28	21	19	22	15
11	13	14	25	20	17	21	14
10	12	13	23	19	15	19	13
9	12	12	20	18	14	18	12
8	11	11	18	16	13	16	11
7	10	10	15	15	11	15	10
6	9	9	13	14	10	13	9
5	8	8	11	12	9	11	8
4	7	7	9	10	7	10	6
3	6	5	7	7	6	7	5
2	4	4	4	5	4	5	3
1	3	2	2	3	2	2	2
Number of items							
30	45	45	52	76	45	64	48

Table 24—Grade 6: Raw scores for the Sequential Tests of Educational Progress, STEP Series II, 1969 edition, and equivalent raw scores for selected other reading tests (continued)

TOTAL READING

STEP II 1969 Level 4 Form A	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form S	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E
Raw score	Equivalent raw score						
60	81	83	101	117	96	109	90
59	79	79	99	110	92	105	88
58	73	77	98	106	91	102	86
57	70	7	96	102	89	99	85
56	67	71	94	98	88	96	82
55	64	68	92	93	86	93	80
54	62	66	90	89	84	89	77
53	59	63	88	85	82	86	75
52	57	61	87	82	81	83	72
51	55	59	85	79	79	80	70
50	52	57	84	75	77	77	67
49	51	55	83	72	75	74	65
48	49	53	81	70	73	71	63
47	47	51	80	67	[illegible]	69	60
46	46	49	79	65	69	66	58
45	44	48	77	62	68	63	56
44	43	46	76	60	66	61	54
43	42	45	75	58	65	59	52
42	41	43	73	56	63	58	50
41	39	42	72	54	61	56	48
40	38	40	71	52	60	54	47
39	37	39	69	51	58	52	45
38	36	38	68	49	56	50	43
37	34	36	67	47	55	48	41
36	33	35	65	45	53	47	40
35	32	34	63	44	51	45	38
34	31	32	62	42	49	44	36
33	30	31	60	41	48	42	35
32	29	30	58	40	46	41	34
31	28	29	57	38	44	39	32
30	27	28	55	37	42	38	31
29	27	27	53	36	41	37	30
28	26	27	51	35	39	36	29
27	25	26	50	34	38	35	28
26	24	25	48	33	36	33	27

STEP II 1969 Level 4 Form A	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form S	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E
Raw score	Equivalent raw score						
25	24	24	46	33	35	33	26
24	23	23	44	32	33	31	25
23	22	23	43	31	32	30	24
22	22	22	40	30	31	29	23
21	21	21	38	29	29	29	22
20	20	20	36	28	28	27	22
19	19	19	34	27	27	26	21
18	19	18	32	26	25	25	20
17	18	18	30	25	24	24	19
16	17	17	28	24	23	23	18
15	17	16	26	23	22	22	17
14	16	16	24	22	21	20	16
13	15	15	23	21	20	19	16
12	14	14	21	19	19	17	14
11	13	13	19	17	17	15	13
[illegible]	12	12	17	15	15	14	11
9	11	11	15	14	14	12	10
8	10	10	13	13	13	10	9
7	8	8	11	12	11	8	8
6	7	7	10	10	9	7	6
5	6	5	9	9	8	6	5
4	5	4	8	8	7	5	4
3	4	3	7	7	6	3	3
2	3	3	7	6	4	2	2
1	3	3	7	3	3	2	2
Number of items 60	85	85	102	122	85	112	80

Table 25–Grade 4: Individual score norms

VOCABULARY

Raw score	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form G Vocabulary	GMT 1964 Survey D Form 1W Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form F Word Knowledge	SAT 1964 Inter. H Form W Word Meaning	SRA ACH 1971 Blue Level Form G Vocabulary	STEP II 1969 Level 4 Form 3A Part 1
	Percentile rank/stanine							
50			99+		99 9			
49			99+		99			
48			99+		99			
47			99+		98			
46			99+		97 8			
45			99+ 9		96			
44			99		95			
43			99		94			
42			99		93 7			
41			98		92		99+	
40	99+	99+	97		91 6		99 9	
39	99+	99+ 9	96		90		98	
38	99 9	99	94 8	99+	89		96 8	
37	98	97	92	99 5	87 5	99+	94	
36	96	95	90	98	85	99 9	92	
35	95	93 8	87	97	83 4	98	90	
34	93 8	91	84 7	95 8	81	97	87 7	
33	91	87	80	93	78	96	84	
32	88	84 7	76	90	75 3	95	81	
31	86 7	80	71 6	87 7	72	94 8	78 6	99+
30	84	77	67	84	69 2	92	75	99 9
29	80	72 6	62	82	66	90	72	98
28	77	68	57	78	63 1	87	68 5	96
27	74	64	52 5	75	60	84 7	65	94 8
26	70 6	60	47	72 6	57	81	63	93
25	66	55 5	43	68	54	78	60	90 7
24	62	51	39	64	51	75	57	86
23	58	47	35	61	48	72 6	54	81
22	54	44	32 4	57	45	69	51 5	75
21	50 5	40	29	54	42	66	48	68 6
20	46	37	25	51 5	39	63	46	63
19	42	33	22	47	36	60	43	57
18	38	30 4	19 3	43	33	57 5	40	51 5
17	35	27	16	40	30	54	37 4	44
16	31 4	23	14	36	27	51 5	33	39
15	27	20	11	32 4	24	48	30	33 4
14	23	17 3	9	29	21	45 4	26	28
13	19	14	7 2	25	18	42	22	24
12	16 3	11	6	22	16	39	18 3	20
11	13	9	5	18	13	36	14	16 3
10	10	7 2	4	16 3	11	33	11	12
9	7 2	5	3	12	9	30	9	9 2
8	5	4	2	9 2	8	27	7 2	7
7	4	3	1	6	6	24	5	5
6	3	2	1	4	5	21	4	3
5	2	1	1	3	4	18	3	2
4	1 1	1 1	1 1	2 1	3	15	2 1	1 1
3	1	1	1	1	2	12	1	1
2	1	1	1	1	1	9	1	1
1	1	1	1	1	1	6	1	1
0						3		

READING COMPREHENSION

Raw score	CAT 1970 Level 3 Form A Complete Version	CTBS 1968 Level J Form G Complete Version	GMT 1964 Survey D Form 1W Complete Version	ITBS 1971 Level 10 Form 5 Reading Complete Version	MAT 1970 Elementary Form F Reading	SAT 1964 Inter. H Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form 3A Part 2
	Percentile rank/stanine							
68				99+				
67				99+				
66				99+				
65				99+				
64				99+				
63				99+ 9				
62				99				
61				99				
60				99		99+		
59				98		99+		
58				98		99+		
57				97		99+		
56				96		99+ 9		
55				95		99		
54				94 8		99		
53				92		98		
52			99+	91		98		
51			99+	90		97		
50			99 9	88		96		
49			99	87		95		
48			98	85		94	99+	
47			97	83 7		93 8	99+	
46			96	81		92	99+	
45		99+	94 8	80	99+	90	99+ 9	
44		99+	92	77	99	89	99	
43		99 9	90	75	98 9	87	98	
42	99+	98	88	73	96	85 7	98	
41	99+	97	86	71 6	93 8	84	97	
40	98	96	84 7	69 5	90	82	96	
39	96 9	94 8	82	67	86 7	79	94 8	
38	95	91	79	65	82	77	93	
37	91	89	76	63	78	74	91	
36	86	86 7	74 6	61	75	71 6	90	
35	82	82	70	59	71 6	69	88	
34	79 8	79	67	57	68	66	86 7	
33	76	76	64	55	64	63	83	
32	72	72 6	62	52 5	61	61	81	
31	69 6	69	59	50	58	58	78	99+
30	65	65	57	48	55 5	56	76	99+ 9
29	62	62	54	45	52	53 5	74	98
28	58	58	51 5	43	49	51	71 6	96
27	55	54	48	41	46	47	68	94 8
26	52 5	51 5	45	39	43	45	65	92
25	48	47	43	36 4	40	43	62	90
24	45	43	40	34	37	40	59	87 7
23	42	40	37	31	34	37	56	84
22	39	37	35	29	31 4	34 4	52 5	80
21	36 4	34	32 4	27	29	31	48	77
20	33	31 4	30	25	26	28	44	73
19	30	28	27	22 3	23	25	41	69
18	27	25	24	20	20	22 3	39	65
17	24	22	21	18	18 3	19	35 4	61
16	21	19	19	16	15	16	32	57
15	18	16	17 3	13	13	13	28	53
14	15	13	14	11	11	10 2	25	49
13	12	10	12	9 2	9 2	8	21	45
12	9	8	10	7	7	6	18	41
11	7 2	7 2	8 2	5	5	4	15	37
10	5	5	6	3 2 1	4 1	3 2 1	12	33 4
9							10	
8							8	
7							6	
6							4	
5							3	
4							2	
3							1	
2							1	
1							1	
0							1	

Table 25—Grade 4 Individual score norms (continued)

READING COMPREHENSION

	CAT 1970 Level 3 Form A Compre hension	CTBS 1968 Level 2 Form G Compre hension	GMT 1964 Survey D Form 1M Compre hension	ITBS 1971 Level 10 Form 5 Reading Compre hension	MAT 1970 Elementary Form F Reading	SAT 1964 Intermediate Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form 1 Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Percentile rank/stanine							
9	3	3	4 2	1	2	1	3	21
8	2	2	3	1–	2	1	2	10 3
7	1	1	2	1– 1	1	1	1	11
6	1	1–	1	1–	1–	1– 1	1	7 2
5	1– 1	1 1	1 1	1–	1– 1	1–	1– 1	4
4	1–	1–	1– 1	1–	1–	1–	1–	2
3	1–	1–	1–	1–	1–	1–	1–	1
2	1–	1–	1–	1–	1–	1–	1–	1– 1
1	1–	1–	1–	1–	1–	1–	1–	1–
0	1–	1–	1–	1–	1–	1–	1–	1–

Table 25—Grade 4: Individual score norms (continued)

TOTAL READING

Raw score	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
	Percentile rank/stanine							
106	99+			99+				
105	99+			99+				
104	99+			99+				
103	99+			99+				
102	99+		99+	99+				
101	99+		99+	99+				
100	99+		99+	99+				
99	99+		99+	99+				
98	99+		99+	99+ 9		99+		
97	99+		99+	99		99+		
96	99+		99+	99		99+		
95	99+		99+	99	99+	99+		
94	99+		99+	99	99+ 9	99+		
93	99+		99+ 9	98	99	99+		
92	99+		99	98	98	99+		
91	99+		99	97	98	99+		
90	99+		99	97	97	99+ 9	99+	
89	99+		99	96	96	99	99+	
88	99+		98	95	95	99	99+	
87	99+		98	95	94 9	99	99+	
86	99+		97	94 8	92	99	99+	
85	99+	99+	97	93	90	99	99+ 9	
84	99+	99+	96	92	87	98	99	
83	99+	99+	95	91	85 7	98	99	
82	99+	99+	94	90	82	97	99	
81	99+	99+	93 8	89	79	96	99	
80	99+	99 9	92	88	76	96	98	
79	99+	99	91	87	73	95	97	
78	99+	99	90	86	71	94	96	
77	99	98	89 7	85	69 6	93 8	95	
76	99 9	98	88	84	67	92	94	
75	99	97	87	83	65	92	93 6	
74	98	96	86	82	63	91	92	
73	98	94	85 7	81	61	90	91	
72	97	93 8	82	79	59	89	90	
71	97	91	81	77	57	89	89	
70	96	90	79	76	55	88	87	
69	95	88	78	75	54	87	86	
68	95	86	76	73	52 7	86	85	
67	94 8	85 7	74	72	50 5	85	84 7	
66	93	83	72	71	49	84	83	
65	92	81	70	69 6	47	83	82	
64	91	79	68 6	67	46	82	81	
63	89	77	67	66	44	81	79	
62	88	75	65	65	43	79	78	
61	87	73	63	64	41	78	77	
60	85 7	71	61	63	40	77	76	99+
59	84	69 6	60	61	39	76	74 6	99+
58	82	67	58	60	37 8	74	73	99+ 9
57	80	65	56 5	59 4	36	73	72	99
56	78	64	53	57 5	35	71	70	99
55	77 6	62 5	52	56	34	70	69	99
54	75	60	50	55	32	69	67	98

Raw score	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 10 Form 5	MAT 1970 Elementary Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
	Percentile rank/stanine							
53	73	58	48	53	31	67 6	69	98 9
52	71	56	47 5	52	30	65	68 6	97
51	69	54	45	51	29	63	67	95
50	67 6	52	43	50	28 4	62	66	94 8
49	65	51 5	41	48 5	26	61	64	93
48	63	49	40	47	25	59	63	91
47	61	47	38	45	24	58	62	89
46	58	45	37	44	23	56	60	88 7
45	56	43	35	42	22	55	59	86
44	54	42	34	41	21	53	58	84
43	52	40	32 4	40	20	52	56	82
42	49 5	38	30	38	19	50 5	55	80
41	47	37	29	37	18	49	53	77
40	45	35	27	35	17 3	48	52	75 6
39	42	33	26	34	16	46	50	72
38	40	32 4	24	32 4	15	45	49	70 6
37	38	30	23	31	15	44	48	67
36	36	28	21	29	14	42	46	64
35	34	27	20	27	13	41	45	61
34	32 4	25	18	25	12	40	43	58
33	29	23	17	23	11	38	41 4	56 5
32	27	22	16 3	21	10	37	39	53
31	25	20	15	19	9	35	37	50 5
30	23	18 3	13	17 3	9 2	34	35	47
29	21	17	12	15	8	32	33	45
28	19	15	11	13	7	31	31	43
27	17 3	14	10	11	6	29	29	41
26	15	12	8	9	5	28	27 3	39
25	13	11	7 2	8 2	5	26	25	37
24	12	9	7	6	4	25	24	35
23	10	8	6	5	3	23	22	33
22	8 2	6 2	5	4	3	22	20 2	31 3
21	7 2	5	4	3	2	20	18	29
20	6	4	3	2	2	19	17	27
19	4	3	3	2	1	17	15	25
18	3	2	2	1	1	16	13	23
17	2	2	2	1	1	14	12	21
16	2	1	1	1	1	13	10	19
15	1	1	1	1	1	11	9	17
14	1	1	1	1	1	10	7	15
13	1	1	1	1	1	8	6	13
12	1–	1–	1–	1–	1–	7	4	11
11	1–	1–	1–	1– 1	1–	5	3	9
10	1– 1	1– 1	1– 1	1–	1–	4	2	7
9	1–	1–	1–	1–	1–	3	1	5
8	1–	1–	1–	1–	1–	2	1–	4
7	1–	1–	1–	1–	1–	1	1–	3
6	1–	1–	1–	1–	1–	1–	1–	2
5	1–	1–	1–	1–	1–	1–	1–	1
4	1–	1–	1–	1–	1–	1–	1–	1–
3	1–	1–	1–	1–	1–	1–	1–	1–
2	1–	1–	1–	1–	1–	1–	1–	1–
1	1–	1–	1–	1–	1–	1–	1–	1–
0	1–	1–	1–	1–	1–	1–	1–	1–

Table 26—Grade 5: Individual score norms

VOCABULARY

Raw score	CAT 1970 Level 3 Form 4A Vocabulary	CTBS 1968 Level 2 Form G Vocabulary	GMT 1964 Survey D Form YM Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter. Form P Basic Know-ledge	SAT 1964 Inter. H Form 3A Word Meaning	SRA ACH 1971 Blue Level Form 5 Vocabulary	STEP II 1969 Level 4 Form A Part 1
	Percentile rank/stanine							
50			99+ 9		99+ 9			
49			99+		99+			
48			99+		99+			
47			99+		99+			
46			99+		99+			
45			99		99			
44			98		98			
43			97		97			
42			95 8	99+ 9	95 8		99 9	
41			93	99+	93		98	
40	99+ 9	99+ 9	91	99	91		96	
39	97	98	88 7	98	88 7		93 8	
38	94 8	95 8	85	96 9	85		91	
37	91	92	81	93 8	81		87 7	
36	87 7	87 7	76 6	89	76 6		82	
35	82	82	72	87 7	72		78 6	
34	78	77	67	83	67		74	
33	74 6	72 6	62	80 6	62		70	
32	71	68	57 5	77	57 5		66 5	
31	67	64	52	73	52		62	99 9
30	63	60 5	46 4	69 5	46 4		58	98
29	59 5	56	42	66	42		54 4	96 8
28	55	51	37	62	37		50	94 7
27	51	47 5	33 4	58 5	33 4		46	91
26	47	42	29	55	29		42	87 6
25	43 5	38 4	25	51	25		38 4	82
24	40	34	22	47 4	22		34	77 5
23	36 4	30	19 3	44	19 3		31	72
22	32	27	16	40	16		27 3	67 4
21	28	23 3	13 2	36 3	13 2		23	62
20	25 3	19	10	33	10		19 2	57
19	21	16 2	8	29 2	8		15	52 3
18	17 2	12	6 1	25	6		11 1	47
17	13	8 1	4	22 1	4		7	42
16	9 1	4	3	18	3		4	37 2
15	5	3	2	14	2		3	32
14	4	2	1	11	1		2	27
13	3	1	1	7	1		1	22 1
12	2	1	1	4	1		1	17
11	1	1	1	3	1		1	12
10	1	1	1	2	1		1	7
9	1	1	1	1	1		1	3
8	1	1	1	1	1		1	2
7	1	1	1	1	1		1	1
6	1	1	1	1	1		1	1
5	1	1	1	1	1		1	1
4	1	1	1	1	1		1	1
3	1	1	1	1	1		1	1
2	1	1	1	1	1		1	1
1	1	1	1	1	1		1	1
0	1	1	1	1	1		1	1

READING COMPREHENSION

Raw score	CAT 1970 Level 3 Form 4A Compre-hension	CTBS 1968 Level 2 Form G Compre-hension	GMT 1964 Survey D Form YM Compre-hension	ITBS 1971 Level 11 Form 5 Reading Compre-hension	MAT 1970 Inter. Form P Reading	SAT 1964 Inter. H Form 3A Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
	Percentile rank/stanine							
74				99+				
73				99+				
72				99+				
71				99+				
70				99+				
69				99+ 9				
68				99				
67				98				
66				97				
65				96				
64				95				
63				93				
62				91				
61				90 8				
60				88				
59				86				
58				84 7				
57				82				
56				80				
55				78				
54				77				
53				75				
52				73				
51				71				
50				69 6				
49				67				
48				65				
47				63				
46				61				
45				59				
44				57				
43				55				
42	99+ 9		99+ 9	53 5				
41	98	99+ 9	98	51				
40	96	98	96	48	99+ 9			
39	94 8	96	94 8	46	98			
38	92	94	92	44	96			
37	90	91	89	42	94			
36	87 7	89	87 7	40	92			
35	84	87	84	37	90			
34	82	84	81	35	88			
33	79 6	82	78	33	86			
32	76	79	74 6	31	84			
31	73	76	71	29	82			
30	70	73	68	27	80			
29	67	70	65	25	78			
28	64	67	62	23	76			
27	61	64	59	21	74			
26	58	61	56	19	72			
25	55	58	53	17	70			
24	52	55	50	15	68			
23	49	52	47	13	66			
22	46	49	44	11	64			
21	43	46	41	9	62			
20	40	43	38	7	60			
19	37	40	35	5	58			
18	34	37	32	4	56			
17	31	34	29	3	54			
16	28	31	26	2	52			
15	25	28	23	1	50			
14	22	25	20	1	48			
13	19	22	17	1	46			
12	16	19	14	1	44			
11	13	16	11	1	42			
10	10	13	8	1	40			
9	7	10	5	1	38			
8	4	7	3	1	36			
7	3	4	2	1	34			
6	2	3	1	1	32			
5	1	2	1	1	30			
4	1	1	1	1	28			
3	1	1	1	1	26			
2	1	1	1	1	24			
1	1	1	1	1	22			
0	1	1	1	1	20			

Table 26—Grade 5. Individual score norms (continued)

READING COMPREHENSION

	CAT 1970 Level D Form A Complete Battery	CTBS 1968 Level J Form Q Full Battery	GMT 1964 Booklet 2F Form 3AB Complete Battery	ITBS 1971 Level 13 Form 5 Reading Comprehension Battery	MAT 1970 Intermediate Form F Reading	SAT 1964 Intermediate 4S Paragraph Meaning	SRA-ACH 1971 Blue Booklet Form 5L Reading	STEP II 1969 Level 4 Form 4A Part 2
Raw score	Percentile rank (decile)							
14	9	9	7	2	10	8	10	39
13	7	7	6	2	9	6	9	34
12	6	5	5	2	7	4	7	29
11	4	4	4	2	5	3	5	23
10	3	3	3	1	3	2	3	18
9	2	2	2	1	2	2	2	14
8	1	1	1	1	1	1	1	10
7	1	1	1	1	1	1	1	6
6	1	1	1	1	1	1	1	4
5	1	1	1	1	1	1	1	2
4	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1

Table 26–Grade 5: Individual score norms (continued)

TOTAL READING

Raw score	CAT 1970 Level 3 Form 1A	CTBS 1968 Level 2 Form G	UNIT 1964 Survey G Form SM	ITBS 1971 Level 11 Form 5	MAT 1970 Over Form X	SAT 1964 Form W Form 4A	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form 4A
	Percentile rank, stanine							
60	99+ 9	99+ 9	99+ 9	99+ 9	99+ 9	99+ 9	99+ 9	99+ 9
59	99+	99+	99+	99+	99+	99+	99+	99+
58	99+	99+	99+	99+	99+	99+	99+	99+
57	99+	99+	99+	99+	99+	99+	99+	99+
56	99+	99+	99+	99+	99+	99+	99+	99+
55	99+	99+	99+	99+	99+	99+	99+	99+
54	99+	99+	99+	99+	99+	99+	99+	99+
53	99+	99+	99+	99+	99+	99+	99+	99+
52	99+	99+	99+	99+	99+	99+	99+	99+
51	99+	99+	99+	99+	99+	99+	99+	99+
50	99+	99+	99+	99+	99+	99+	99+	99+
49	99+	99+	99+	99+	99+	99+	99+	99+
48	99+	99+	99+	99+	99+	99+	99+	99+
47	99+	99+	99+	99+	99+	99+	99+	99+
46	99+	99+	99+	99+	99+	99+	99+	99+
45	99+	99+	99+	99+	99+	99+	99+	99+
44	99+	99+	99+	99+	99+	99+	99+	99+
43	99+	99+	99+	99+	99+	99+	99+	99+
42	99+	99+	99+	99+	99+	99+	99+	99+
41	99+	99+	99+	99+	99+	99+	99+	99+
40	99+	99+	99+	99+	99+	99+	99+	99+
39	99+	99+	99+	99+	99+	99+	99+	99+
38	99+	99+	99+	99+	99+	99+	99+	99+
37	99+	99+	99+	99+	99+	99+	99+	99+
36	99+	99+	99+	99+	99+	99+	99+	99+
35	99+	99+	99+	99+	99+	99+	99+	99+
34	99+	99+	99+	99+	99+	99+	99+	99+
33	99+	99+	99+	99+	99+	99+	99+	99+
32	99+	99+	99+	99+	99+	99+	99+	99+
31	99+	99+	99+	99+	99+	99+	99+	99+
30	99+	99+	99+	99+	99+	99+	99+	99+
29	99+	99+	99+	99+	99+	99+	99+	99+
28	99+	99+	99+	99+	99+	99+	99+	99+
27	99+	99+	99+	99+	99+	99+	99+	99+
26	99+	99+	99+	99+	99+	99+	99+	99+
25	99+	99+	99+	99+	99+	99+	99+	99+
24	99+	99+	99+	99+	99+	99+	99+	99+
23	99+	99+	99+	99+	99+	99+	99+	99+
22	99+	99+	99+	99+	99+	99+	99+	99+
21	99+	99+	99+	99+	99+	99+	99+	99+
20	99+	99+	99+	99+	99+	99+	99+	99+
19	99+	99+	99+	99+	99+	99+	99+	99+
18	99+	99+	99+	99+	99+	99+	99+	99+
17	99+	99+	99+	99+	99+	99+	99+	99+
16	99+	99+	99+	99+	99+	99+	99+	99+
15	99+	99+	99+	99+	99+	99+	99+	99+
14	99+	99+	99+	99+	99+	99+	99+	99+
13	99+	99+	99+	99+	99+	99+	99+	99+
12	99+	99+	99+	99+	99+	99+	99+	99+
11	99+	99+	99+	99+	99+	99+	99+	99+
10	99+	99+	99+	99+	99+	99+	99+	99+
9	99+	99+	99+	99+	99+	99+	99+	99+
8	99+	99+	99+	99+	99+	99+	99+	99+
7	99+	99+	99+	99+	99+	99+	99+	99+
6	99+	99+	99+	99+	99+	99+	99+	99+
5	99+	99+	99+	99+	99+	99+	99+	99+
4	99+	99+	99+	99+	99+	99+	99+	99+
3	99+	99+	99+	99+	99+	99+	99+	99+
2	99+	99+	99+	99+	99+	99+	99+	99+
1	99+	99+	99+	99+	99+	99+	99+	99+
0	99+	99+	99+	99+	99+	99+	99+	99+

Table 27–Grade 6: Individual score norms

VOCABULARY

Raw score	CAT 1970 Level 4 Form A Vocabulary	CYBS 1968 Level 3 Form U Vocabulary	GMT 1964 Survey D Form YM Vocabulary	ITBS 1971 Level 12 Form 5 Vocabulary	MAT 1970 Inter. Form W Word Knowledge	SAT 1964 Inter. II Form W Word Meaning	SRA ACH 1971 Green Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
	Percentile rank/stanine							
50			99+		99+			
49			99+		98 9			
48			99 9		97			
47			99		94	99+		
46			97	99+	91 8	99+		
45			96	99+	87	99 9		
44			94 8	99+ 6	84 7	99		
43			91	99	80	98		
42			88	98	76	96	99+	
41			84 7	97	72	95	98 9	
40	99+	99+	80	96	68 5	93 8	96	
39	99+	99+	75	94 8	65	91	94 8	
38	99+ 9	99 9	70 6	92	61	89	91	
37	99	98	65	90	57	86	88	
36	98	97	60	88	53	84 7	85 7	
35	97	96	54	85 7	50 5	81	81	
34	96	94 8	49 5	82	46	77	77	
33	94 8	92	42	79	43	74	74	
32	91	90	38	75	40	72	70 6	
31	89	87	33 4	72 6	37	69 6	67 6	
30	86 7	85 7	30	68	34	67	63	99 9
29	83	82	26	65	32 4	63	60	95 8
28	79	79	23	61	29	60	57	89 7
27	75	75	20	57	27	57	53 5	82
26	70 6	71 6	17 3	53 5	25	54 5	50	75 6
25	65	68	15	49	22	51	46	63
24	61	64	13	46	20	47 4	43	54 5
23	57	60	11	42	19	44	40	46
22	52	57	9	39	17 3	41	37	39 4
21	48 5	52 5	8	35 4	15	37	34 4	33
20	44	49	7 2	32	13	34	32	28
19	41	45	6	29	11	30 4	29	23
18	37	40	5	26	10	27	27	20
17	33 4	36	4	23	8 7 2	24	24	17 3
16	30	32 4	3	20 3	6	21	21	14
15	26	29	2	17	5	18 3	19 3	12
14	23	25	1	14	4	15	16	10
13	19 3	21	1–	11	3 1	12	14	8 2
12	16	18 3	1–	8 2	2	9 2	11	7
11	13	14	1–	6	1	6	8 2	5
10	10 2	11	1– 1	4	1	4	6	4
9	8	8 2	1–	3	1	3 1	4	3
8	6	6	1–	2	1	2	3 1	2
7	4	4	1–	2	1	2	2	1
6	3	2	1–	1	1–	1	1	1–
5	2	1	1–	1	1–	1	1–	1–
4	1	1–	1–	1–	1–	1–	1–	1–
3	1–	1–	1–	1–	1–	1–	1–	1–
2	1–	1–	1–	1–	1–	1–	1–	1–
1	1–	1–	1–	1–	1–	1–	1–	1–
0	1–	1–	1–	1–	1–	1–	1–	1–

READING COMPREHENSION

Raw score	CAT 1970 Level 4 Form A Complete Version	CTBS 1968 Level 3 Form D Complete Version	GMT 1964 Survey D Form YM Complete Version	ITBS 1971 Level 12 Form 5 Reading Complete Version	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. II Form W Paragraph Meaning	SRA ACH 1971 Green level Form E Reading	STEP II 1969 Level 4 Form A Part 2
	Percentile rank/stanine							
76				99+				
75				99+				
74				99+				
73				99+				
72				99+				
71				99+				
70				99+ 9				
69				99				
68				99				
67				99				
66				99				
65				98				
64				98		99+		
63				97		99+		
62				97		99+		
61				96		99 9		
60				95		99		
59				94		98		
58				93 8		97		
57				92		96		
56				92		94 8		
55				91		93		
54				89		92		
53				88		90		
52			99 9	86		88		
51			97	85 7		86 7		
50			94 8	84		84		
49			90	82		83		
48			85 7	81		81		
47			80	79		79	99+	
46			75	77		77	99 9	
45	99+	99+	70 6	76	99+	75	96	
44	99+	99+	66	74	99 9	72	93 8	
43	99+	99+ 9	61	72	96	69 9	92	
42	99+	99	57	70 6	94 8	68	89	
41	99 9	98	52	68	91	65	87 7	
40	99	97	48 5	66	87 7	63	84 7	
39	98	95 8	45	64	83	61	82	
38	97	93	42	61	79	58	79	
37	96	91	38	59	75	55	77	
36	95 8	88 7	35 4	57	71 6	53 5	74	
35	93	86	32	54	67	51	72	
34	92	83	30 4	52 5	63	48	69 8	
33	89	79	27	50	59	46	66	
32	87 7	76	25	48	55	43	63	
31	85	73 6	22	45	52 5	41	61	99 9
30	82	69	20	43	48	38	58	98
29	79	65	19	41	45	36	55	96 8
28	76	61	17 3	39	42	33	53	91
27	73 6	57	16	36	39	30 4	50 5	85 7
26	69	53 5	14	33 4	36	27	47	79
25	65	49	13	30	33 4	25	45	73 6
24	61	46	12	27	30	23	42	67
23	57	42	11	24	27	21	39	61
22	53 5	39	9	21	24	18 3	37	56
21	48	35 4	8	18 3	22	16	34 4	52 5
20	44	31	7	15	19 3	14	30	47
19	39	28	6 2	12	17	11	27	43
18	34 4	24	6	9	15	9	24	39 4
17	28	21 3	5	7 2	13	8 2	21 3	34
16	23	18	4	5	11	6	18	30
15				4		5		

Table 27—Grade 6: Individual score norms (continued)

READING COMPREHENSION

	CAT 1970 Level 4 Form A Complete Version	CTBS 1968 Level 3 Form Q Complete Version	GMT 1964 Survey D Form YM Complete Version	ITBS 1971 Level 12 Form 5 Reading Complete Version	MAT 1970 Intermediate Form F Reading	SAT 1964 Intermediate Form W Paragraph Meaning	SRA ACH 1971 Green Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Raw score	Percentile rank/stanine							
14	19 3	14 3	3	3	9	4	14 3	26 4
13	14	11	3	2	7 2	3	11	22
12	10	8	2	2	5	2	8	18 3
11	7 2	6 2	2	1	4	1	6 2	15
10	4	4	1	1	3	1	5	11
9	3	2	1	1	2	1	3	8
8	1	1	1	1	1	1	2	6 2
7	1	1	1 1	1 1	1	1 1	1	4
6	1–	1	1–	1	1 1	1–	1	3
5	1– 1	1– 1	1–	1	1–	1–	1– 1	2
4	1–	1–	1–	1–	1–	1–	1–	1
3	1–	1–	1–	1–	1–	1–	1–	1– 1
2	1–	1–	1–	1–	1–	1–	1–	1–
1	1–	1–	1–	1–	1–	1–	1–	1–
0	1–	1–	1–	1–	1	1–	1–	1–

Table 27—Grade 6: Individual score norms (continued)

TOTAL READING

Raw score	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
	Percentile rank/stanine							
122				99+				
121				99+				
120				99+				
119				99+				
118				99+				
117				99+				
116				99+				
115				99+				
114				99+				
113				99+				
112				99+ 9		99+		
111				99+		99+		
110				99		99+		
109				99		99+		
108				99		99+		
107				99		99+		
106				98		99+		
105				98		99+ 9		
104				98		99		
103				97		99		
102			99+	97		98		
101			99+	96		98		
100			99+	96		98		
99			99 9	95		97		
98			99	95		96		
97			98	94		95		
96			97	94		94		
95			96	93 8	96	94		
94			95	92	99+	93 8		
93			93 8	92	99+	92		
92			92	91	98 9	91		
91			90	90	98	90		
90			88	90	96	89	99+	
89			86	89	96	88	99+	
88			84 7	88	95	87	99	
87			82	87	94 8	87	99 9	
86			80	86	92	85	98	
85	99+	99+	77	85	90	84 7	97	
84	99+	99+	75	84 7	88	83	97	
83	99+	99+	72	83	87	82	96	
82	99+	99+	69 6	82	85 7	81	94	
81	99+	99+	66	81	83	80	93 8	
80	99+	99+	63	80	81	79	92	
79	99+	99 9	61	79	78	77	91	
78	99+	99	59	78	76	76	90	
77	99+ 9	99	56	77	74	75	88	
76	99	98	54	76	72	73	87	
75	99	97	51	74	70	72	85	
74	98	97	49 5	73	68 6	71	84 7	
73	98	96	47	72	66	69 6	83	
72	98	95	44	70 6	64	68	81	
71	98	95	42	69	62	66	80	
70	97	94 8	41	67	60	65	78	
69	96	92	39	66	58	63	77	
68	95	91	37	64	57	62	75	
67	94	90	35	63	55	61	74	
66	94 8	89	33	61	53	59	72	
65	92	88	31 4	60	51 5	58	70 6	
64	91	87	30	58	49	57 5	69	
63	90	85 7	28	57 5	48	56	67	
62	89 7	84	27	56	46	54	65	
61	88 7	82	26	54	44	53	64	

Raw score	CAT 1970 Level 4 Form A	CTBS 1968 Level 3 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 12 Form 5	MAT 1970 Inter. Form F	SAT 1964 Inter. II Form W	SRA ACH 1971 Green Level Form E	STEP II 1969 Level 4 Form A
	Percentile rank/stanine							
60	87	80 7	25 4	53	42 5	51	62 6	99+
59	85	79	23	51	41	50	61	99 9
58	84 7	77	22	50	39	48	59	99
57	82	75	21	48	38	47 5	58	97
56	81	73	20	47 5	36	45	56	95 8
55	79	71	19	46	35	44	55	92
54	77	69 6	18	44	33	42	53	89
53	75	67	17	43	32	41	52	85 7
52	73	64	16 3	41	30 4	40	50 5	82
51	71 6	62	15	40	29	38	49	78
50	69	61	14	38	28	36	47	74
49	66	59	13	37	26	35	46	70 6
48	64	57	12	36	25	33	44	66
47	62	55	12	34	24	32 4	42	62
46	60	52	11	33 4	23	30	41	59
45	57	51 5	10	31	22	29	40	56
44	55	49	9	29	20	27	38	53
43	53	47	9	28	19	26	37	50 5
42	51 5	45	8	26	18	24	35	48
41	48	43	8	25	17	23	33	45
40	46	41	7 2	23	16 3	21	32 4	42
39	44	40	7	22	15	20	30	39
38	42	38	6	20	14	19	29	36
37	40	36	6	19	13	17 3	28	34
36	37	34	5	17 3	12	16	26	31 4
35	35	32 4	5	15	11	14	25	29
34	33 4	30	5	13	10	13	23	27
33	31	28	4	12	9	12	22	25
32	29	26	4	10	9	10	20	23
31	27	24	3	9	8	9	19	21
30	24	22	3 2	8	7 2	8	17 3	19
29	22	20	2	6	6	7 2	16	17 3
28	20	18	2	5	6	6	14	15
27	18 3	16 3	2	4	5	5	13	14
26	16	14	2	4	4	4	11	12
25	14	13	2	3	4	4	10	11
24	12	11	1	2	3	3	9	10
23	10	9	1	2	2	3	7 2	9
22	8	8	1	2	2	2	6	7 2
21	7 2	7 2	1	2	2	2	5	6
20	5	5	1	1	1	2	4	5
19	4	4	1–	1	1	1	3	5
18	3	3	1–	1	1	1	2	4
17	2	2	1–	1	1	1	2	3
16	2	2	1– 1	1–	1–	1	1	2
15	1	1	1–	1–	1–	1–	1	2
14	1	1	1–	1–	1–	1–	1	2
13	1	1–	1–	1– 1	1– 1	1– 1	1–	1
12	1–	1–	1–	1–	1–	1–	1–	1
11	1–	1–	1–	1–	1–	1–	1–	1–
10	1–	1–	1–	1–	1–	1–	1– 1	1–
9	1– 1	1– 1	1–	1–	1–	1–	1–	1– 1
8	1–	1–	1–	1–	1–	1–	1–	1–
7	1–	1–	1–	1–	1–	1–	1–	1–
6	1–	1–	1–	1–	1–	1–	1–	1–
5	1–	1–	1–	1–	1–	1–	1–	1–
4	1–	1–	1–	1–	1–	1–	1–	1–
3	1–	1–	1–	1–	1–	1–	1–	1–
2	1–	1–	1–	1–	1–	1–	1–	1–
1	1–	1–	1–	1–	1–	1–	1–	1–
0	1–	1–	1–	1–	1–	1–	1–	1–

Table 28—Comparison of selected Anchor Test Study percentile ranks with publishers' corresponding percentile ranks

California Achievement Tests (CAT), 1970 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks: Vocabulary Grade 4	Vocabulary Grade 5	Vocabulary Grade 6	Comprehension Grade 4	Comprehension Grade 5	Comprehension Grade 6	Total Reading Grade 4	Total Reading Grade 5	Total Reading Grade 6
99	99	99	99	99	99	99	99	99	99
95	96	94	95	95	95	95	95	95	96
90	90	88	90	90	90	91	88	90	91
85	85	83	83	85	84	85	82	83	85
80	80	77	78	79	79	80	78	78	79
75	74	72	73	74	74	75	73	73	74
70	69	67	69	70	70	70	68	68	69
65	65	63	65	64	65	66	63	63	65
60	60	58	60	59	60	61	59	59	60
55	55	53	55	55	55	56	55	55	56
50	49	48	51	51	51	51	51	50	51
45	45	45	47	46	46	46	46	45	47
40	40	39	42	42	41	41	41	41	43
35	35	35	37	38	37	36	36	36	38
30	30	31	32	33	32	32	32	32	33
25	26	26	28	27	27	27	26	27	28
20	22	21	23	22	21	21	22	22	22
15	17	16	17	17	16	17	17	16	16
10	12	12	12	12	11	12	12	11	11
5	7	6	5	7	5	7	6	5	6
1	1	1	1	1	1	1	1	1	1

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Comprehensive Tests of Basic Skills (CTBS), 1968 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks: Vocabulary Grade 4	Vocabulary Grade 5	Vocabulary Grade 6	Comprehension Grade 4	Comprehension Grade 5	Comprehension Grade 6	Total Reading Grade 4	Total Reading Grade 5	Total Reading Grade 6
99	99	99	99	99	99	99	99	99	99
95	96	94	94	95	94	94	95	93	94
90	90	87	88	90	89	88	89	88	88
85	85	83	82	84	83	81	84	83	81
80	80	78	76	79	77	76	79	78	76
75	74	72	72	73	73	70	74	73	70
70	70	67	67	68	68	65	69	68	66
65	65	63	62	64	64	60	64	63	62
60	60	58	57	58	58	55	59	58	56
55	56	54	52	53	54	50	55	53	51
50	52	50	47	48	49	45	50	48	46
45	48	45	42	43	44	39	46	44	41
40	41	41	39	39	40	34	41	39	36
35	36	36	34	35	34	29	36	35	31
30	31	32	29	30	30	25	31	31	27
25	27	27	24	26	24	22	27	26	23
20	23	22	20	21	20	17	23	21	19
15	19	17	15	17	15	14	18	16	15
10	14	12	10	12	11	9	12	11	10
5	7	7	5	6	6	5	7	7	5
1	1	1	1	1	1	1	1	1	1

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Gates-MacGinitie Reading Tests (GMT), 1964 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks: Vocabulary Grade 4	Vocabulary Grade 5	Vocabulary Grade 6	Reading Comprehension Grade 4	Reading Comprehension Grade 5	Reading Comprehension Grade 6
99	99	99	99	99	99	99
95	94	95	96	92	93	96
90	88	87	91	86	87	90
85	83	82	85	81	81	84
80	79	78	79	74	76	79
75	75	72	76	68	70	76
70	71	68	69	62	66	69
65	64	64	66	58	60	61
60	60	59	58	51	55	57
55	56	52	55	47	49	52
50	52	49	49	41	42	46
45	48	45	44	38	39	42
40	43	40	40	31	32	36
35	38	36	34	27	27	31
30	32	32	27	21	24	27
25	27	26	23	19	20	21
20	22	21	18	15	16	18
15	15	15	14	11	12	14
10	8	8	11	7	8	9
5	3	4	5	4	4	5
1	2	2	2	2	2	2

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Iowa Tests of Basic Skills (ITBS), 1971 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks: Vocabulary Grade 4	Vocabulary Grade 5	Vocabulary Grade 6	Reading Comprehension Grade 4	Reading Comprehension Grade 5	Reading Comprehension Grade 6
99	99	99	99	99	99	99
95	92	93	92	94	92	92
90	87	87	88	88	87	87
85	82	82	82	83	81	81
80	76	78	75	78	76	74
75	72	71	70	73	69	68
70	66	66	65	67	63	65
65	62	61	59	60	60	59
60	57	55	55	57	54	55
55	53	49	50	50	50	51
50	46	45	46	47	43	45
45	42	41	41	42	39	41
40	39	36	36	38	35	36
35	34	30	33	33	30	31
30	29	26	27	27	25	26
25	24	20	22	23	19	21
20	20	16	17	18	15	16
15	13	12	12	14	11	12
10	9	7	8	7	6	9
5	5	3	4	3	3	4
1	1	1	1	1	1	1

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Table 28—Comparison of selected Anchor Test Study percentile ranks with publishers' corresponding percentile ranks (continued)

Metropolitan Achievement Tests (MAT), 1970 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks								
	Word Knowledge			Reading			Total Reading		
	Grade 4	Grade 5	Grade 6	Grade 4	Grade 5	Grade 6	Grade 4	Grade 5	Grade 6
99	99	99	99	99	99	99	99	99	99
95	94	94	95	95	93	95	93	94	95
90	89	89	91	89	89	89	88	89	90
85	84	83	85	85	83	84	82	84	84
80	78	78	80	78	79	79	77	78	79
75	75	74	75	72	75	74	71	74	75
70	69	69	70	67	69	69	67	70	72
65	63	64	64	61	66	64	60	64	65
60	56	58	59	55	58	59	55	62	62
55	51	56	54	50	54	54	50	54	54
50	45	51	50	45	49	50	46	48	50
45	39	45	45	38	43	44	39	46	44
40	36	40	38	34	39	37	32	38	40
35	30	35	33	29	33	33	28	34	34
30	25	29	29	24	29	28	24	30	28
25	19	24	22	19	25	25	20	25	23
20	16	18	18	14	21	21	16	18	20
15	12	14	14	10	16	14	11	14	15
10	6	9	8	7	11	10	7	10	10
5	2	4	4	2	5	5	2	4	4
1	1	1	1	1	1	1	1	1	1

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Stanford Achievement Tests (SAT), 1964 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks					
	Word Meaning			Paragraph Meaning		
	Grade 4	Grade 5	Grade 6	Grade 4	Grade 5	Grade 6
99	96	99	99	99	99	99
95	86	92	89	95	92	91
90	82	85	81	90	82	82
85	80	79	74	84	76	76
80	80	72	67	77	72	70
75	73	63	62	68	66	66
70	68	57	57	63	60	55
65	61	50	52	57	54	52
60	56	47	46	51	51	45
55	52	42	39	45	43	41
50	44	36	33	40	39	37
45	37	32	27	35	34	31
40	32	28	25	30	31	27
35	27	24	21	27	26	23
30	23	20	18	22	23	20
25	20	15	15	16	18	16
20	15	11	11	13	15	12
15	12	8	8	10	11	10
10	10	5	5	8	8	7
5	5	3	3	4	4	3
1	1	1	1	1	1	1

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SRA Achievement Series (SRA ACH), 1971 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks								
	Vocabulary			Reading			Total Reading		
	Grade 4	Grade 5	Grade 6	Grade 4	Grade 5	Grade 6	Grade 4	Grade 5	Grade 6
99	99	99	99	99	99	99	99	99	99
95	94	92	93	95	94	94	95	94	94
90	89	90	87	89	89	89	90	89	88
85	83	81	81	84	84	84	85	84	84
80	77	77	77	79	79	79	79	79	79
75	72	71	71	74	74	74	73	74	73
70	66	66	66	69	69	69	68	69	69
65	61	61	61	63	64	65	63	63	64
60	56	56	56	58	59	60	58	58	59
55	51	51	51	52	54	56	53	53	54
50	46	46	46	47	49	50	48	48	49
45	40	41	42	42	44	45	43	43	45
40	35	36	38	38	39	40	38	38	39
35	30	32	33	33	34	34	33	34	35
30	26	27	28	29	30	30	28	29	30
25	20	23	22	23	25	24	23	23	24
20	16	17	18	19	20	19	18	19	19
15	12	13	13	15	15	15	14	14	14
10	8	8	8	9	11	10	10	9	9
5	4	5	4	4	5	4	5	4	5
1	1	1	1	1	1	1	1	1	1

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Sequential Tests of Educational Progress, STEP Series II, 1969 Edition

Anchor Test Study Percentile Ranks	Publisher's Corresponding Percentile Ranks
	Total Reading
	Grade 4	Grade 5	Grade 6
99	99	99	98
95	95	94	92
90	89	88	87
85	82	83	83
80	76	76	79
75	71	70	76
70	66	65	72
65	61	61	66
60	56	55	62
55	51	50	56
50	46	45	50
45	42	41	44
40	37	35	39
35	31	30	35
30	27	26	30
25	22	22	24
20	17	17	18
15	13	12	12
10	8	8	6
5	4	5	2
1	1	1	1

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Table 29--Grade 4: School mean norms

VOCABULARY

Mean raw score	CAT 1970 Level 3 Form A Vocabulary	CTBS 1968 Level 2 Form Q Vocabulary	GMT 1964 Survey D Form 1M Vocabulary	ITBS 1971 Level 10 Form 5 Vocabulary	MAT 1970 Elementary Form 1 Word Knowledge	SAT 1964 High 1 Form W Word Meaning	SRA ACH 1971 Blue Level Form E Vocabulary	STEP II 1969 Level 4 Form A Part 1
	Percentile rank/stanine							
50			90+		99+			
49			90+		99+			
48			90+		99+			
47			90+		99+ 9			
46			90+		99+			
45			90+		99			
44			90+		98			
43			90+		95			
42			90+ 9		90 8		99+	
41			90+		83 7		99+	
40	99+	99+	90+		75 6		99+	
39	99+	99+	90+		67		99+	
38	99+	99	90+	99+	59	99+	99+	
37	99+	99+	90+	99+	51 5	99+	99+ 9	
36	99+	99+	90+	99+	43	99+	99+	
35	99+	99+ 9	90	99+	36	99+	99+	
34	99+ 9	99+	90	99+	30 4	99+	99	
33	99+	99+	95	99+ 9	25	99+	99	
32	99+	99	95 8	99+	22	99+ 9	99	
31	99	99	89	99+	18	99+	97	
30	99	97	82	99	16 3	99+	95 8	99+
29	98	93 8	72 6	98	13	99+	91	99+
28	96	86 7	61	98	11	99	86 7	99+
27	92 8	78	51 5	96 8	8	98	79	99+ 9
26	86 7	69 6	41	91	6 2	98	71 6	99+
25	78	59 5	33 4	85 7	5	96	63	99+
24	69 6	49	25	77 6	3	92 8	55 5	99+
23	59 5	39	20	68	2	85 7	46	98
22	49	4 4	15 3	58 5	2	76 6	38	96 8
21	40	4	12	49	1	66	32 4	86 7
20	32 4	19	8 2	40	1	55 5	26	75 6
19	25	15 3	6	31 4	1	45	21	60
18	19	11	3	25	1	36 4	16 3	47 5
17	14 3	8 2	2	19 3	1	27	13	34 4
16	11	5	1	14	1	21	9	24
15	7 2	3	1	10	1	15 3	7 2	17 3
14	5	2	1	7 2	1	11	4	11
13	3	1	1	4	1	7 2	2	7 2
12	1	1	1	2	1 1	5	1	4
11	1	1	1	1	1	2	1	2
10	1	1	1	1	1	1	1	1
9	1	1	1 1	1	1	1	1	1
8	1 1	1 1	1	1	1	1	1 1	1
7	1 1	1	1	1	1	1	1	1
6	1	1	1	1 1	1	1 1	1	1 1
5	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1

READING COMPREHENSION

Mean raw score	CAT 1970 Level J Form A Complete Test	CTBS 1968 Level 2 Form Q Complete Test	GMT 1964 Survey D Form 1M Complete Test	ITBS 1971 Level 10 Form 5 Reading Complete Test	MAT 1970 Elementary Form 1 Reading	SAT 1964 High 1 Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
	Percentile rank/stanine							
68				99+				
67				99+				
66				99+				
65				99+				
64				99+				
63				99+				
62				99+				
61				99+				
60				99+			99+	
59				99+			99+	
58				99+			99+	
57				99+			99+	
56				99+ 9			99+	
55				98			99+	
54				99+			99+	
53				99+			99+	
52			99+	99+			99+	
51			99+	99+			99+	
50			99+	99+			99+	
49			99+	99+			99+ 9	
48			99+	99			99+	99+
47			99+	99			99+	99+
46			99+	99			99+	99+
45		99+	99+	99	99+		99+	99+
44		99+	99+ 9	98	99+		99+	99+
43		99+	99+	97	99+		99+	99+
42	99+	99+	99+	94 8	99+		99+	99+
41	99+	99+	99+	91	99+ 9		99	99+
40	99+	99+	99	86 7	99+		99	99+ 9
39	99+	99+ 9	99	81	99+		98	99+
38	99+	99+	99	77	99		96	99+
37	99+	99+	98	72 6	99		93 8	99+
36	99+	99+	95 8	66	98		89	99+
35	99+ 9	99	91	60	96 8		82 7	99+
34	99+	98	85 7	54	91		75	99+
33	99+	98	78	47 5	85 7		68 6	99
32	99+	95 8	71	41	77		61	99
31	99+	90	64 6	35	69 6		54	98
30	99	83 7	60	30 4	61		50 5	96 8
29	99	76	53 5	26	53 5		42	91
28	96	68 6	45	22	44		36	85 7
27	91 8	60	38	18 3	36		30 4	78
26	84 7	51 5	32 4	14	29 4		24	71 6
25	76 6	42	26	12	24		19	63
24	65	34 4	22	9	19		15 3	54 5
23	54 5	27 4	18 3	7 2	15 3		12	44
22	43	22	14 3	5	12		9	36 4
21	33 4	17 3	11	4	9		7 2	29
20	25	13	9	3 2	7 2		5	22
19	18 3	10	7 2	2	5		3	16 3
18	13	7 2	5	1	3		2	12
17	9 2	5	3	1	2		1	8 2
16	6	3	2	1 1	1		1 1	6
15	3	2	1	1	1		1	3 2
14	2	1	1 1	1	1 1		1	2
13	1 1	1 1	1	1	1		1	1
12	1	1	1	1	1		1	1
11	1	1	1	1	1		1	1
10	1	1	1	1	1		1	1

Table 29—Grade 4: School mean norms (continued)

READING COMPREHENSION

	CAT 1970 Level 3 Form A Comprehension	CTBS 1968 Level 2 Form Q Comprehension	GMT 1964 Survey D Form 1M Comprehension	YBS 1971 Level 10 Form S Reading Comprehension	MAT 1970 Elementary Form F Reading	SAT 1964 Inter. 1 Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
Mean raw score	Percentile rank/stanine							
9	1–	1–	1–	1–	1–	1–	1–	4
8	1–	1–	1–	1–	1–	1–	1–	2
7	1–	1–	1–	1–	1–	1–	1–	1–
6	1–	1–	1–	1–	1–	1–	1–	1–
5	1– 1	1– 1	1– 1	1– 1	1– 1	1– 1	1– 1	1– 1
4	1–	1–	1–	1–	1–	1–	1–	1–
3	1–	1–	1–	1–	1–	1–	1–	1–
2	1–	1–	1–	1–	1–	1–	1–	1–
1	1–	1–	1–	1–	1–	1–	1–	1–
0	1–	1–	1–	1–	1–	1–	1–	1–

Table 29—Grade 4: School mean norms (continued)

TOTAL READING

Mean raw score	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form YM	ITBS 1971 Level 12 Form S	MAT 1970 Elementary Form F	SAT 1964 Inter. I Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
	Percentile rank/stanine							
106				99+				
105				99+				
104				99+				
103				99+				
102			99+	99+				
101			99+	99+				
100			99+	99+				
99			99+	99+				
98			99+	99+		99+		
97			99+	99+		99+		
96			99+	99+		99+		
95			99+	99+	99+	99+		
94			99+	99+	99+	99+		
93			99+	99+	99+	99+		
92			99+	99+	99+	99+		
91			99+	99+	99+	99+		
90			99+	99+	99+	99+	99+	
89			99+	99+	99+	99+	99+	
88			99+	99+ 8	99+	99+	99+	
87			99+	99+	99+ 9	99+	99+	
86			99+ 9	99+	99+	99+	99+	
85		99+	99+	99+	99	99+	99+	
84		99+	99+	99+	99	99+	99+	
83		99+	99+	99+	99	99+	99+	
82	99+	99+	99+	99+	99	99+	99+	
81	99+	99+	99+	99	99	99+ 8	99+	
80	99+	99+	99+	99	99	99+	99+	
79	99+	99+	99+	99	98	99+	99+	
78	99+	99+	99+	99	96	99+	99+	
77	99+	99+	99	99	94 8	99+	99+	
76	99+	99+	99	99	91	99+	99+ 9	
75	99+	99+	99	99	88 7	99+	99+	
74	99+	99+ 8	99	99	84	99+	99+	
73	99+	99+	99	99	80	99+	99+	
72	99+	99+	99	98	76	99	99+	
71	99+	99+	99	98	72	99	99+	
70	99+	99+	98	97	68 6	99	99	
69	99+ 9	99	97	95	64	99	99	
68	99+	99	95	94 8	60	99	99	
67	99+	99	94 8	92	56	99	99	
66	99+	99	92	90	52	99	99	
65	99+	99	89	88	48 5	98	99	
64	99+	99	85 7	84 7	44	98	99	
63	99	98	81	81	40	96	98	
62	99	97	77	78	37	95	98	
61	99	95	74	74	33	94 8	97	
60	99	93 8	70	71	29 4	92	95	99+
59	99	90	66 6	68 6	26	89	94 8	99+
58	99	86	62	64	24	86 7	92	99+
57	98	82 7	57	61	22	82	90	99+ 9
56	97	78	53 5	57	20	78	86	99+
55	96	74	48	53 5	18 3	74	83 7	99+
54	94 8	69 6	44	49	17	71 6	79	99+
53	91	65	40 4	45	15	67	75 6	99+

Mean raw score	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form YM	ITBS 1971 Level 12 Form S	MAT 1970 Elementary Form F	SAT 1964 Inter. I Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level 4 Form A
	Percentile rank/stanine							
52	87	60 6	36	41 5	14	62 6	72	99+
51	83 7	56	33	38	13 3	58	68 6	99+
50	78	51 5	29 4	35	11	53	63	99+
49	73	46	26	31 4	10	49 5	59	99+
48	68 6	41	23	29	9	44	55	99+
47	63	37	20	26	7 2	40	50 5	99+
46	58	33 4	18	23	6	36	46	99 6
45	53 5	29	16 3	21	5	33	41	99
44	47	25	15	18	4	30 4	37	95
43	42	22	13	16 3	4	26	33	93
42	37	19	12	15	3	23	30 4	86
41	33 4	17 3	10	13	2	20	27	96
40	29	15	9 2	12	2	17 3	24	94 6
39	25	14	7	10	1	15	21	90
38	21	12	6	9 2	1	14	18 3	85 7
37	18	10	5	7	1	12	16	79
36	15 3	9	4	6	1	10	14	72 6
35	14	7 2	3	5	1	9	12	65
34	12	6	2	4	1	7 2	11	59 5
33	10	4	2	3	1	6	9	52
32	8 2	3	1	2	1	4	7 2	45
31	6	2	1	1	1	3	6	38 4
30	4	2	1	1	1	2	4	32
29	3	1	1	1	1	2	3	26
28	2	1	1	1	1	1	2	21
27	2	1	1	1	1	1	2	17 3
26	1	1	1	1	1	1	1	14
25	1	1	1	1	1	1	1	12
24	1	1	1	1	1	1	1	9
23	1	1	1	1	1	1	1	7 2
22	1	1	1	1	1 1	1	1	5
21	1	1	1	1	1	1	1	3
20	1	1	1	1	1	1	1	2
19	1	1	1	1	1	1	1	1
18	1	1 1	1 1	1	1	1	1	1
17	1	1	1	1 1	1	1	1	1
16	1	1	1	1	1	1	1	1
15	1 1	1	1	1	1	1 1	1 1	1
14	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1 1
10	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1

Table 30—Grade 5: School mean norms

VOCABULARY

Mean raw score	CAT 1970 Level J Form A Vocabulary	CTBS 1968 Level G Form G Vocabulary	GMT 1964 Survey D Form DM Vocabulary	ITBS 1971 Level 11 Form 5 Vocabulary	MAT 1970 Inter. Form F Word Knowledge	SAT 1964 Inter. H Form W Word Meaning	SRA ACH 1970 Blue Level Form B Vocabulary	STEP II 1969 Level 4 Form A Part 1
	Percentile rank/stanine							
50			99+		99+			
49			99+		99+			
48			99+		99+	99+		
47			99+		99+	99+		
46			99+		99+	99+		
45			99+		99+	99+		
44			99+		99+ 9	99+		
43			99+		99+	99+		
42			99+ 9	99+	99+	99+	99+	
41			99+	99+	99+	99+	99+	
40	99+	99+	99+	99+	99+	99+	99+ 9	
39	99+	99+	99+	99+	99+	99+	99+	
38	99+	99+	99	99+ 9	99+	99+	99+	
37	99+ 9	99+ 9	98	99+	96 8	99+	98	
36	99+	99+	95 8	99+	92	99+	96	
35	99+	99	90	99	87 7	99+	95 8	
34	99	98	82 7	99	81	99+	90	
33	97	94 8	72	98	73 6	99	84 7	
32	93 8	87 7	61 6	96 8	65	98	77	
31	87 7	78	50 5	92	57	96	69 6	
30	78	67 6	41	88 7	49 5	93	60	99+
29	69 6	56 5	33 4	81	41	88	52	99+
28	58	46	26	74 6	35	82	44 5	99+ 9
27	49 5	37	21	65	29 4	74	37	99+
26	40	30 4	16 3	57	24	66 8	32 4	99
25	33 4	23	12	48 5	20	58 7	26	97
24	27	18	9	41	16 3	50	22	90 8
23	21	14 3	7 2	34 4	13	42 6	18 3	79 7
22	17 3	11	5	29	10	35	15	65 6
21	13	9	4	23	8 2	29 4	12	50 5
20	10	7 2	2	19	6	24	9	38 4
19	8 2	5	1	15 3	5	20 3	7 2	27
18	6	3	1	12	3	16	6	20 3
17	4	2	1	9	2	13	4	14
16	2	1	1	7 2	1	10 2	3	9 2
15	1	1	1	5	1	8	2	6
14	1	1	1	4	1	6	1	4
13	1	1	1	3	1	4	1	3
12	1	1	1	2	1	3	1	2
11	1	1	1	1	1	2	1	1
10	1	1	1 1	1	1	2	1	1
9	1 1	1 1	1	1	1 1	1	1	1
8	1	1	1	1	1	1	1	1
7	1	1	1	1 1	1	1	1	1 1
6	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1

READING COMPREHENSION

Mean raw score	CAT 1970 Level J Form A Complete Battery	CTBS 1968 Level G Form G Complete Battery	GMT 1964 Survey D Form DM Complete Battery	ITBS 1971 Level 11 Form 5 Reading Complete Battery	MAT 1970 Inter. Form F Reading	SAT 1964 Inter. H Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form A Part 2
	Percentile rank/stanine							
74				99+				
73				99+				
72				99+				
71				99+				
70				99+				
69				99+				
68				99+				
67				99+				
66				99+				
65				99+				
64				99+		99+		
63				99+		99+		
62				99+ 9		99+		
61				99+		99+		
60				99+		99+		
59				99+		99+		
58				99+		99+		
57				99+		99+		
56				99+		99+		
55				99+		99+		
54				99+		99+		
53				99+		99+		
52			99+	99		99+		
51			99+	99		99+ 9		
50			99+	98		99+		
49			99+	97		99+		
48			99+	95		99+	99+	
47			99+ 9	93 5		99+	99+	
46			99+	91		99+	99+	
45		99+	99+	88	99+	99+	99+	
44		99+	98	83 7	99+	99+	99+	
43		99+	96	78	99+	99+	99+ 9	
42	99+	99+	94	73	99+	99+	99+	
41	99+	99+ 9	91 8	68 6	99+	99	99+	
40	99+	99+	86 7	63	99+ 9	97	99+	
39	99+	99	79	57 5	99+	95 8	99+	
38	99+	98	72 6	51	99+	92	99	
37	99+ 9	96	63	45	99+	88 7	98	
36	99+	93 8	56	39	99+	83	96 8	
35	99+	89 7	49 5	33 4	99	77 6	92	
34	99+	84	45	28	98	71	88 7	
33	98	80	40	24	96	65	82	
32	96	74 6	33 4	20	96 8	58 5	74 6	
31	92 8	67	27	17 3	92	51	66	99+
30	85 7	61 5	22	14	87 7	43	58	99+
29	77 6	54	18 3	11	80	36 4	49 5	99+
28	68	47 4	15	9	73 6	29	41	99+ 9
27	59 5	40	12	7 2	64	23	33 4	99+
26	50	33 3	9	6	55 5	18	26	99+
25	41 4	26	7 2	5	45	15 3	20 3	99+
24	32	20 3	6	4	36 4	12	16	98
23	25 3	15	4	3	28	9	12	92
22	19	11 2	3	2	22 3	7 2	9	85 8
21	14 2	8	2	1	17	5	7 2	77 7
20	10	6	2	1	13	4	5	68 6
19	7	4	1	1	9 2	3	4	59 5
18	5	3	1	1	7 2	2	3	50
17	3	2	1	1 1	5	2	2	41 4
16	2	1	1	1	4	1	2	33
15	1	1 1	1	1	3	1	1	26 3
14	1 1	1	1	1	2	1 1	1 1	20
13	1	1	1	1	2	1	1	15 2
12	1	1	1	1	1	1	1	11
11	1	1	1	1	1	1	1	8 2
10	1	1	1 1	1	1	1	1	6

Table 30—Grade 5: School mean norms (continued)

READING COMPREHENSION

	CAT 1970 Level 3 Form D Comprehension	CTBS 1968 Level 2 Form G Comprehension	GMT 1964 Survey D Form SM Comprehension	ITBS 1971 Level 11 Form S Reading Comprehension	MAT 1970 Intermediate Form K Reading	SAT 1964 Intermediate Form W Paragraph Meaning	SRA ACH 1971 Blue Level Form E Reading	STEP II 1969 Level 4 Form 1A Part 2
Mean raw score	Percentile rank/stanine							
9	1–	1–	1	1–	1–	1	1	1
8	1–	1–	1–	1–	1–	1–	1–	1–
7	1	1–	1–	1–	1	1–	1–	1
6	1	1–	1–	1	1	1	1–	1
5	1– 1	1– 1	1 1	1 1	1 1	1 1	1 1	1 1
4	1–	1–	1–	1–	1–	1–	1–	1–
3	1–	1–	1–	1–	1–	1–	1–	1–
2	1	1	1	1	1	1–	1	1–
1	1–	1	1	1–	1–	1–	1	1–
0	1–	1–	1	1–	1–	1–	1–	1

Table 30—Grade 5: School mean norms (continued)

TOTAL READING

	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form S	MAT 1970 Inter. Form F	SAT 1964 Inter. H Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level A Form A
Mean IRM score	Percentile rank/stanine							
117				99+				
116				99+				
115				99+				
114				99+				
113				99+				
112				99+		99+		
111				99+		99+		
110				99+		99+		
109				99+		99+		
108				99+		99+		
107				99+		99+		
106				99+		99+		
105				99+		99+		
104				99+		99+		
103				99+		99+		
102			99+	99+		99+		
101			99+	99+		99+		
100			99+	99+ 9		99+		
99			99+	99+		99+		
98			99+	99+		99+		
97			99+	99+		99+		
96			99+	99+		99+		
95			99+	99+	99+	99+		
94			99+	99+	99+	99+		
93			99+	99+	99+	99+		
92			99+	99+	99+	99+		
91			99+	99+	99+	99+		
90			99+ 9	99+	99+	99+ 9	99+	
89			99+	99+	99+	99+	99+	
88			99+	99+	99+	99+	99+	
87			99+	99	99+	99+	99+	
86			99+	99	99+	99+	99+	
85		99+	99+	99	99+	99+	99+	
84		99+	99+	98	99+	99+	99+	
83		99+	99+	98	99+ 9	99+	99+	
82	99+	99+	99+	97	99+	99+	99+	
81	99+	99+	99+	96	99+	99+	99+	
80	99+	99+	99+	95	99+	99+	99+ 9	
79	99+	99+	99+	94	99+	99+	99+	
78	99+	99+	97	93 8	99+	99+	99+	
77	99+	99+ 8	96	92	99+	99+	99+	
76	99+	99+	94 8	90	99+	99+	99+	
75	99+	99+	91	88	99+	99+	99	
74	99+ 9	99+	90	86 7	99+	99+	99	
73	99+	99+	88 7	83	99	99+	99	
72	99+	99	85	80	99	99	99	
71	99+	98	77	77	98	99	97	
70	99+	98	72 8	73	97	99	95	
69	99+	96	68	70	96	99	94 8	
68	99+	94 8	63	67 6	94 8	98	92	
67	99	91	58	64	92	97	90	
66	99	88	53	61	91	96	87	
65	97	84 7	48 5	57	88	94	83 7	
64	95	79	45	53	85 7	93 8	79	
63	93 8	74	41	50 5	82	91	75	
62	91	69 8	38	46	78	90	71 6	
61	88	64	34 4	43	73	87	67	
60	84 7	58	31	40 4	69 6	85 7	62	99+ 9
59	79	52 5	27	36	64	82	58 5	99+

	CAT 1970 Level 3 Form A	CTBS 1968 Level 2 Form Q	GMT 1964 Survey D Form 1M	ITBS 1971 Level 11 Form S	MAT 1970 Inter. Form F	SAT 1964 Inter. H Form W	SRA ACH 1971 Blue Level Form E	STEP II 1969 Level A Form A
Mean IRM score	Percentile rank/stanine							
58	74	47 5	24 4	35	60 6	78 7	54	99+
57	69 6	43	22	32	56	74	49 5	99+
56	63	39	20	29 4	51 5	71 6	46	99+
55	57	36	18	26	47	67	42	99+
54	52 5	32 4	16 3	23	43	63	39	99+
53	48	28	14	21	39	59	36	99+ 9
52	42	24	12	20	36	55	32 4	99+
51	38	21	11	18	33 4	51 5	29	99+
50	34 4	19	9	17 3	29	46	25	99+
49	30	17	8	15	26	42	23	99+
48	26	15 3	7	14	22	38	21	99
47	22	13	6 2	12	20	35	19	98
46	20	12	6	11	18	32 4	17 3	96
45	18 3	10	5	9	16 3	29	15	93 8
44	15	8	4	8	15	26	14	89
43	13	7 2	4	7 2	13	22	12	84 7
42	11	7	3	6	11	20	10	78
41	9	6	2	6	9	19 3	9	71 6
40	8	5	2	5	8	16	7	64
39	7 2	4	1	4	7 2	14	7 2	57 5
38	6	3	1	3	6 2	12	6	50
37	5	3	1	3	5	10	6	43
36	4	2	1	2	5	8	5	37 4
35	3	2	1	2	4	7 2	4	31 4
34	2	1	1	1	3	6	4	26
33	2	1	1	1	2	5	3	22 3
32	1	1	1	1	1	4	2	18
31	1	1	1	1	1	3	2	15
30	1	1	1	1	1	2	1	12
29	1	1	1	1	1	2	1	10 2
28	1	1	1	1	1	1	1	8
27	1	1	1	1	1	1	1	6
26	1	1	1	1	1	1	1	5
25	1	1	1	1	1	1	1	4
24	1	1	1	1	1	1	1	3
23	1	1	1	1	1	1	1	2
22	1	1	1	1	1	1	1	2
21	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1

Table 31—Grade 6: School mean norms

VOCABULARY

Mean raw score	CAT 1970 Level 4 Form A Vocabulary	CTBS 1968 Level 3 Form G Vocabulary	GMT 1964 Survey G Form JM Vocabulary	ITBS 1971 Level 12 Form 5 Vocabulary	MAT 1970 Form F Word Knowledge	SAT 1964 Form W Word Meaning	SRA ACH 1971 Green level Form E Vocabulary	STEP II 1968 Level 4 Form A Part 1
	Percentile rank/stanine							
50			99+		99+			
49			99+		99+			
48			99+		99+	99+		
47			99+		99+	99+		
46			99+	99+	99+ 9	99+		
45			99+ 9	99+	99	99+		
44			99+	99+	99	99+		
43			99+	99+	98	99+		
42			99	99+	97	99+	99+	
41			99	99+	95 8	99+ 9	99+	
40	99+	99+	97	97+ 9	91 8	99+	99+	
39	99+	99+	94 3	99+	85 7	98	99+	
38	99+	99+	88 7	99+	78 6	96	99 8	
37	99+	99+	79	98	67	96	99	
36	99+	99+	67 6	95	58 5	95	99	
35	99+	99+	55 5	93	50	93	99	
34	99+ 9	99+ 9	44	90	43	91	97	
33	99+	99	36	87	37	90 8	96 8	
32	99+	99	29 4	85 8	31 4	93	93	
31	99	99	23	82	26	88 7	87 7	
30	99	99	18	80 7	22	81	80	99+
29	98	98	14 3	77	19 3	72 6	71 6	99+ 9
28	97	97	11	67 6	15	63	61	99+
27	94 8	94 8	8 2	58	13	55	53 5	96
26	89 7	90	6	49 5	11	47 5	45	92 8
25	80	83 7	4	41	9	40	38	80 7
24	70 6	73 6	2	35 4	6 2	34 4	32 4	64 6
23	59	63	1	29	4	29	27	43 5
22	49 5	53 5	1	23	3	23	22	26 4
21	40	44	1	18 3	2	18 3	18 3	14 3
20	33 4	36	1	15	1	15	15	9
19	26	29 4	1	12	1	12	12	6 2
18	21	23	1	9 2	1	10	9 2	4
17	16 3	18 3	1	8	1	8 2	7 2	3
16	13	14	1	6	1	6	6	2
15	9	11	1	5 1	1	5	5	2
14	7 2	8 2	1	4	1	4 1	4 1	1
13	4	5	1	3	1	3	3	1
12	2	3	1	2	1	2	2	1
11	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1
7	1 1	1 1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1

READING COMPREHENSION

Mean raw score	CAT 1970 Level 4 Form A Complete Test/part	CTBS 1968 Level 3 Form G Complete Test/part	GMT 1964 Survey G Form JM Col. scale for scor.	ITBS 1971 Level 12 Form 5 Reading Comprehension	MAT 1970 Form F Reading	SAT 1964 Form W Paragraph Meaning	SRA ACH 1971 Green level Form E Reading	STEP II 1968 Level 4 Form A Part 2
	Percentile rank/stanine							
76				99+				
75				99+				
74				99+				
73				99+				
72				99+				
71				99+				
70				99+				
69				99+				
68				99+				
67				99+				
66				99+				
65				99+				
64				99+		99+		
63				99+		99+		
62				99+ 9		99+		
61				99+		99+		
60				99+		99+		
59				99+		99+		
58				99+		99+		
57				99+		99+		
56				99+		99+		
55				99+		99+		
54				99+		99+		
53				99+		99+		
52				99+		99+		
51				99+		99+		
50				99+		99+		
49				99+		99+		
48				99+		99+		
47				99+		99+		
46				99+		99+		
45			99+	99+	99+	99+		
44			99+	99+	99+	99+		
43			99+	99+	99+	99+		
42			99+	99+	99+	99+		
41			99+	99+	99+	99+		
40			99+ 9	99+	99+ 9	99+		
39			99+	99+	99+	99+		
38			99+	99+	99+	99+		
37			99+	99+	99+	99+		
36			99+	99+	99+	99+		
35			99+	99+	99+	99+		
34			99+	99+	99+	99+		
33			99+	99+	99+	99+		
32			99+	99+	99+	99+		
31			99+	99+	99+	99+		
30			99+	99+	99+	99+		
29			99+	99+	99+	99+		
28			99+	99+	99+	99+		
27			99+	99+	99+	99+		
26			99+	99+	99+	99+		
25			99+	99+	99+	99+		
24			99+	99+	99+	99+		
23			99+	99+	99+	99+		
22			99+	99+	99+	99+		
21			99+	99+	99+	99+		
20			99+	99+	99+	99+		
19			99+	99+	99+	99+		
18			99+	99+	99+	99+		
17			99+	99+	99+	99+		
16			99+	99+	99+	99+		
15			99+	99+	99+	99+		
14			99+	99+	99+	99+		
13			99+	99+	99+	99+		
12			99+	99+	99+	99+		
11			99+	99+	99+	99+		
10			99+	99+	99+	99+		
9			99+	99+	99+	99+		
8			99+	99+	99+	99+		
7			99+	99+	99+	99+		
6			99+	99+	99+	99+		
5			99+	99+	99+	99+		
4			99+	99+	99+	99+		
3			99+	99+	99+	99+		
2			99+	99+	99+	99+		
1			99+	99+	99+	99+		
0			99+	99+	99+	99+		

Table 31—Grade 6: School mean norms (continued)

READING COMPREHENSION

	CAT 1970 Level A Form A Complete Battery	CTBS 1968 Level J Form U Complete Battery	GMT 1964 Survey D Form YM Complete Battery	ITP 1971 Level 12 Form S Reading Complete Battery	MAT 1970 Upper Form K Reading	SAT 1964 Intermediate Form W Paragraph Meaning	SRA ACH 1971 Green Level Form 2	STEP II 1969 Level A Form 2A Part 2
Mean raw score	Percentile rank norms							
14	3	1	1—	1—	1—	1—	1	6 2
13	1	1—	1—	1—	1—	1—	1	5
12	1—	1—	1—	1—	1—	1—	1—	3
11	1—	1—	1—	1—	1—	1—	1—	1
10	1—	1—	1—	1—	1—	1—	1—	1
9	1—	1—	1—	1—	1—	1—	1—	1
8	1—	1—	1—	1—	1—	1—	1	1—
7	1— 1	1— 1	1— 1	1— 1	1— 1	1— 1	1— 1	1
6	1—	—	1—	1—	1—	1—	1—	1— 1
5	1—	1—	1—	1—	1—	1—	1—	1—
4	1—	1—	1—	1—	1—	1—	1—	1—
3	1—	1—	1—	1—	1—	1—	1—	1—
2	1—	1—	1—	1—	1—	1—	1—	1—
1	1—	1—	1—	1—	1—	1—	1—	1—
0	1—	1—	1—	1—	1—	1—	1—	1—

Table 31—Grade 6: School mean norms (continued)

TOTAL READING

Mean raw score	CAT 1970 Level A Form A	CTBS 1968 Level J Form Q	GMT 1964 Survey D Form DM	ITBS 1971 Level 12 Form G	MAT 1970 Grade 6 Form F	SAT 1964 Grade 6 Form W	SRA ACH 1971 Grade Seven Form E	STEP II 1969 Level 4 Form A
	Percentile rank/stanine							
122	99+			99+				
121	99+			99+				
120	99+			99+				
119	99+			99+				
118	99+			99+				
117	99+			99+				
116	99+			99+				
115	99+			99+				
114	99+			99+				
113	99+			99+				
112	99+			99+		99+		
111	99+			99+		99+		
110	99+			99+		99+		
109	99+			99+		99+		
108	99+			99+		99+		
107	99+			99+		99+		
106	99+			99+		99+		
105	99+			99+		99+		
104	99+			99+		99+		
103	99+			99+		99+		
102	99+		99+	99+		99+		
101	99+		99+	99+ 8		99+		
100	99+		99+	99+		99+		
99	99+		99+	99+		99+		
98	99+		99+	99+		99+		
97	99+		99+	99+		99+		
96	99+		99+	99+		99+		
95	99+		99+	99+	99+	99+		
94	99+		99+	99+	99+	99+		
93	99+		99+ 9	99+	99+	99+		
92	99+		99+	99+	99+	99+		
91	99+		99+	99+	99+	99+		
90	99+		99+	99+	99+	99+		
89	99+		99+	99+	99+	99+		
88	99+		99+	99+	99+	99+		
87	99+		99+	99+	99+	99+		
86	97		99+	99+	99+	99+		
85	96	99+	99+	99+	99+	99+	99+	
84	95	99+	99+	99+	99+	99+	99+	
83	94	99+	99+ 8	99+	99+	99+	99+	
82	93	99+	99+	99+	99+	99+	99+	
81	92	99+	99+	99+	99+	99+	99+	
80	91	99+	99+	99+	99+	99+	99+	
79	90	99+	99+	99+	99+	99+	99+	
78	89	99+	99+	99+	99+	99+	99+	
77	88	99+	99+	99+	99+	99+	99+	
76	87	99+	99+	99+	99+	99+	99+	
75	86	99+	99+	99+	99+	99+	99+	
74	85	99+	99+	99+	99+	99+	99+	
73	84	99+ 9	99+	99+	99+	99+	99+	
72	83	99+	99+	99+	99+	99+	99+	
71	82	99+	99+	99+ 7	99+	99+	99+	
70	81	99+	99+	99+	99+	99+	99+	
69	80	99+	99+	99+	99+	99+	99+	
68	79	99+	99+	99+	99+	99+	99+	
67	78	99+	99+	99+	99+	99+	99+	
66	77	99+	99+	99+	99+	99+	99+	
65	76	99+	99+	99+	99+	99+	99+	
64	75	99+	99+	99+	99+	99+	99+	
63	74	99+	99+	99+	99+	99+	99+	
62	73	99+	99+	99+	99+	99+	99+	
61	72	99+	99+	99+	99+	99+	99+	
60	71	99+	99+	99+	99+	99+	99+	
59	70	99+	99+	99+	99+	99+	99+	
58	69	99+	99+	99+	99+	99+	99+	
57	68	99+	99+	99+	99+	99+	99+	
56	67	99+	99+	99+	99+	99+	99+	
55	66	99+	99+	99+	99+	99+	99+	
54	65	99+	99+	99+	99+	99+	99+	
53	64	99+	99+	99+	99+	99+	99+	
52	63	99+	99+	99+	99+	99+	99+	
51	62	99+	99+	99+	99+	99+	99+	
50	61	99+	99+	99+	99+	99+	99+	
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42	53	99+	99+	99+	99+	99+	99+	
41	52	99+	99+	99+	99+	99+	99+	
40	51	99+	99+	99+	99+	99+	99+	
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31	42	99+	99+	99+	99+	99+	99+	
30	41	99+	99+	99+	99+	99+	99+	
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28	39	99+	99+	99+	99+	99+	99+	
27	38	99+	99+	99+	99+	99+	99+	
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25	36	99+	99+	99+	99+	99+	99+	
24	35	99+	99+	99+	99+	99+	99+	
23	34	99+	99+	99+	99+	99+	99+	
22	33	99+	99+	99+	99+	99+	99+	
21	32	99+	99+	99+	99+	99+	99+	
20	31	99+	99+	99+	99+	99+	99+	
19	30	99+	99+	99+	99+	99+	99+	
18	29	99+	99+	99+	99+	99+	99+	
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3	14	99+	99+	99+	99+	99+	99+	
2	13	99+	99+	99+	99+	99+	99+	
1	12	99+	99+	99+	99+	99+	99+	
0	11	99+	99+	99+	99+	99+	99+	

END